

REPORT OF RCRA COMPLIANCE EVALUATION INSPECTION

At

ST. JOHN'S REGIONAL MEDICAL CENTER

2727 McClelland Boulevard

Joplin, Missouri 64804

(417) 625-2007

EPA ID Number: MOD076262500

On

May 4-5, 2011

By

U.S. ENVIRONMENTAL PROTECTION AGENCY

Region VII

Environmental Services Division

1.0 INTRODUCTION

At the request of the Air and Waste Management Division, I conducted a Resource Conservation and Recovery Act (RCRA) compliance evaluation inspection (CEI) at St. John's Regional Medical Center (hereafter SJMC) located in Joplin, Missouri, on May 4-5, 2011. The CEI was conducted under the authority of Section 3007(a) of RCRA, as amended. During the CEI, I collected the information and data necessary to determine compliance with the applicable regulatory and statutory requirements. The inspection report and attachments present the results of the CEI. The CEI was conducted as a Level B Multi-Media Inspection and the *Region 7 Multimedia Screening Checklist* is included as Attachment 1. On May 22, 2011, a tornado struck SJMC causing significant damage. SJMC was destroyed and their patients are being treated at multiple medical facilities located throughout the region. As of May 31, 2011, SJMC operates a temporary tent hospital located across the street from their wrecked building.

2.0 PARTICIPANTS

SJMC:

Kevin Fitzpatrick, General Manager of Environmental Services

Michael Wardlow, Corporate Responsibility Manager

Spencer Dobbs, Safety Officer

Randy Bechtel, Director of Pharmacy

Sarah Boyd, Pharmacy Clinical Coordinator

Suzanne Skinner, Pharmacy Tech II

Tracey Reed, Supplies Processing Distribution/Central Sterile Manager

Marilyn Endicot, Director of Materials Management
Tom Thiele, Microbiology Supervisor
Connie Wilkins, Administrative Lab Director
Karen Adkins, Clinical Lab Educator/Safety Leader
Denise Lucas, Histology Coordinator
Nora Cannon, Director of Imaging
Gregory Dye, Facilities
Gerald Lawrence, Facilities Supervisor
Randy Wensch, Biomedical Services
Preston Myers, Registered Nurse
Karen Wells, Registered Nurse
Chris Newby, Registered Nurse
Jodi Zengel, Registered Nurse/Clinical Supervisor

U.S. Environmental Protection Agency (EPA):
Michael J. Martin, Environmental Scientist

3.0 INSPECTION PROCEDURES

Upon my arrival at SJMC on May 4, 2011 (at 10:15 a.m.), I met with Messrs. Fitzpatrick, Wardlow, and Dobbs. I presented them with my EPA credentials and explained the purpose and procedures of the inspection. I presented them with a copy of RCRA section 3007(a), which provides inspection authority. I next explained my need to collect accurate information and presented them with a copy of Title 18 U.S. Code, Sections 1001 and 1002. They were made aware of their confidentiality rights and were informed that a *Confidentiality Notice* would be provided at the end of the inspection to make or not to make any claims. Messrs. Fitzpatrick, Wardlow, and Dobbs acted as the official facility representatives during the course of the inspection.

The inspection consisted of a discussion of facility operations, waste generation and waste management, a review of waste management records, and a visual inspection of the waste generation and management areas. See attachments 2 and 3 for the Facility Layout and Map. I conducted a visual inspection of the following areas at SJMC:

Pharmacy	Radiology
Histology Lab	Surgery
Microbiology Lab	Patient Medical Care (4 th and 5 th Floors)
Central Sterile	Copy Center
Biomedical Services	Waste Formalin Storage Area (Shipping Dock),
Hazardous Waste Storage Area	Biohazardous Waste Storage Cage (Shipping Dock)
Paint Shop	Universal Waste Storage Area

Information collected during the inspection is documented on the *Missouri Department of Natural Resources (MDNR) Small Quantity Generator Inspection Checklist* (see attachment 4). Document photocopies and photographs were additionally collected as inspection documentation (see attachments 1-23 and photos 1-27). At the conclusion of the inspection, I summarized my findings and recommendations with Messrs. Fitzpatrick, Wardlow, and Dobbs. Additional SJMC personnel were in attendance at the exit briefing. See attachment 5 for the Exit Briefing Attendance List. I provided Mr. Dobbs with a *Confidentiality Notice*, which he signed, indicating no confidentiality claims were made by the SJMC (see attachment 6). I provided Mr. Dobbs with a *Receipt of Documents and Samples* and a *Notice of Violation (NOV)*, which he signed as acknowledgement of receipt (see attachments 7 and 8).

The following inspection documents and compliance assistance handouts were left with SJMC:

- Confidentiality Notice* (Top page of the completed carbonless transfer set)
- Receipt for Documents and Samples* (Top page of the completed carbonless transfer set)
- Notice of Violation* (Top page of the completed carbonless transfer set)
- Instructions for Responding to a Notice of Violation* (EPA Handout)
- Security Awareness* (EPA Handout)
- Commercial Motor Vehicle Transportation Security Planning* (EPA Handout)
- U.S. EPA Small Business Resources* (EPA Handout)
- Mismanagement of Laboratory Waste* (EPA Handout)
- How to Prepare Hazardous Waste Manifests* (EPA Handout)
- Does Your Business Generate Hazardous Waste?* (MNDR Fact Sheet)
- Hazardous Waste in Missouri* (MNDR Fact Sheet)
- Hazardous Waste Generator Status Guidance* (MNDR Fact Sheet)
- Hazardous Waste Satellite Accumulation* (MNDR Fact Sheet)
- Waste or Product Determination Guidance* (MNDR Fact Sheet)
- Is Your Drug Waste Also Hazardous Waste?* (MNDR Fact Sheet)
- Fluorescent Lamps* (MNDR Fact Sheet)
- The Universal Waste Rule in Missouri* (MNDR Fact Sheet)
- Aerosol Cans* (MNDR Fact Sheet)
- Solvent-Contaminated Rags* (MNDR Fact Sheet)
- Small Quantity Generator Inspection Checklist* (MNDR Checklist)

4.0 FINDINGS AND OBSERVATIONS

4.1 Facility Information and Operations

SJMC was a Level 2 Trauma Center that offered services in cardiology, cancer care, orthopedics, neurosciences, obstetrics, and pediatrics. SJMC had a total of 367 licensed beds and was staffed by 1,856 employees. Administration office hours were 7:00 a.m. to 5:00 p.m., Monday through Friday. Emergency care was provided 24 hours a day/7 days a week.

4.2 RCRA Status

SJMC had not been inspected for RCRA compliance prior to this inspection. According to the EPA RCRA Handler Information Report, SJMC operates as a Small Quantity Generator (SQG) of hazardous waste. See attachment 9 for the EPA RCRA Handler Information Report. I asked Messrs. Fitzpatrick and Wardlow to review the EPA RCRA Handler Information Report, which I provided to them during the inspection. They indicated the following changes: (1) their zip code changed from 648041 to 64804, (2) their site contact changed from Don Gabriel to Mr. Dobbs, and (3) their owner changed from Catholic Health Initiatives (303) 298-9100 to the Sisters of Mercy (314) 579-6100. I asked Mr. Wardlow if SJMC had notified the MDNR of the updated changes to their facility information. Mr. Wardlow stated "No." I informed Mr. Wardlow that SJMC will need to submit an updated notification to the MDNR. SJMC generates an average of 112 pounds of known hazardous waste (waste stain) per month and accumulates between 220 pounds and 2,200 pounds of known hazardous waste (waste stain) on-site prior to disposal. Based on the amount of known hazardous waste (234 pounds of waste stain) accumulated on-site and my review of their past three years' uniform hazardous waste manifests, I determined that the SJMC operated as a SQG of D001 and F003 hazardous wastes. See attachment 10 for the 2009-2011 Uniform Hazardous Waste Manifests. In addition, SJMC operated as a small quantity handler of universal waste.

4.3 Facility Waste Management and Streams

Pharmacy Waste - Wastes generated at the Pharmacy consist of tablet capsules, oral liquids, and contents of partially used medications in vials and syringes. Waste pharmaceuticals generated at the Pharmacy include Gemzar (Gemcitabine), Cytovene (Ganciclovir), Mitomycin, Eloxatin (Oxaliplatin), Taxol (Paclitaxel), Cisplatin, Velcade (Bortezomib), Hycamtin (Topotecan), Camptostar (Irinotecan), and Cyclophosphamide. SJMC's last off-shipment of waste pharmaceuticals (waste Mitocycin C and waste Cisplatin) was on March 12, 2010. Veolia (Port Arthur, Texas) disposed of their pharmacy waste as U010 listed hazardous waste. See attachment 10 for the March 12, 2010 Uniform Hazardous Waste Manifest. At the time of the inspection, Mr. Betchel stated that their pharmacy waste (waste tablet capsules, oral liquids, and contents of partially used medications in vials and syringes) are disposed with biohazardous waste (see photos #3 and #4). Stericycle (Springfield, Missouri), disposes of SJMC's biohazardous waste as non-hazardous waste. I asked Mr. Betchel and Ms. Boyd if SJMC had conducted a hazardous waste determination on their pharmacy waste prior to disposal with biohazardous waste. Mr. Betchel and Ms. Boyd both stated "No." I informed Mr. Betchel and Ms. Boyd that SJMC must conduct a hazardous waste determination on their pharmacy waste. The generation rate of their pharmacy waste was not determined at the time of the inspection. An associated violation is noted in Section 5.0.

Reverse Distributor Pharmaceuticals - Unopened/unused pharmaceuticals generated from patient floors and from the Pharmacy are sent to EXP Pharmaceutical Services Corporation (Freemont, California) for reuse and/or recycling on a monthly basis. The pharmaceuticals slated for reverse distribution were stored in two by two foot plastic containers located in the Pharmacy. SJMC's reverse distributor reports were not available for review, due to the Records Management Coordinator being off-site. At the time of the inspection, Ms. Boyd stated that some partially used pharmaceuticals (generated from patient floors) are sent to the Pharmacy and collected with the pharmaceuticals slated for reverse distribution. At the Pharmacy, I observed four storage containers of pharmaceuticals for reverse distribution. From my observation, the containers appeared to store only unused pharmaceuticals (see photos #1 and #2). I asked Ms. Boyd if SJMC had conducted a hazardous waste determination on the partially used pharmaceuticals that were sent to EXP. Ms. Boyd stated "No." I informed Ms. Boyd that SJMC must conduct a hazardous waste determination on their partially used pharmaceuticals. The generation rate of their partially used pharmaceuticals was not determined at the time of the inspection. An associated violation is noted in Section 5.0.

Damaged, Partially Used, and Patient Contacted Pharmaceuticals - At the time of the inspection, Mr. Myers and Ms. Wells stated that damaged, partially used, and patient contacted pharmaceuticals (pills, ointments, creams, tablets, nicotine patches, aerosol inhalers, etc.) generated from patient floors are disposed with biohazardous waste and/or sent to the Pharmacy for disposal. The Pharmacy disposes of the waste pharmaceuticals with biohazardous waste and/or sends it to EXP for disposal or possible reuse. I asked Mr. Myers if SJMC had conducted a hazardous waste determination on their damaged, partially used, and patient contacted pharmaceuticals prior to disposal with biohazardous waste. Mr. Myers stated "No." I asked Mr. Bechtel and Ms. Boyd if SJMC had conducted a hazardous waste determination on their damaged, partially used, and patient contacted pharmaceuticals (sent to the Pharmacy from patient floors) prior to disposal with biohazardous waste. Mr. Bechtel and Ms. Boyd both stated "No." I informed Messrs. Myers and Bechtel and Ms. Boyd that a hazardous waste determination must be conducted on their damaged, partially used, and patient contacted pharmaceuticals. The generation rate of their damaged, partially used, and patient contacted pharmaceuticals was not determined at the time of the inspection. An associated violation is noted in Section 5.0.

Chemotherapy Waste - SJMC generates chemotherapy waste (dispensing equipment, intravenous bags, syringes, tubing, gloves, gowns, masks, and cleanup debris) from their drug preparation and administering activities. Ms. Wells stated that their chemotherapy waste is collected in yellow 5-gallon accumulation containers and is disposed by Housekeeping. Mr. Fitzpatrick stated that Housekeeping collects the chemotherapy waste and manages it as biohazardous waste. I asked Messrs. Fitzpatrick and Wardlow if SJMC had conducted a hazardous waste determination on their chemotherapy waste prior to disposal as biohazardous waste. Messrs. Fitzpatrick and Wardlow both stated "No." I informed Messrs. Fitzpatrick and Wardlow that a hazardous waste determination must be conducted on their chemotherapy waste. The generation rate of their chemotherapy waste was not determined at the time of the inspection. An associated violation is noted in Section 5.0.

Chemotherapy Hood Filters - SJMC generates four spent hood filters per year from their chemotherapy drug preparation activities. ENV (Joplin, Missouri) services the one hood that is used for chemotherapy drug preparation. Mr. Wardlow stated that ENV disposes of their spent hood filters off-site. I asked Mr. Wardlow if SJMC had conducted a hazardous waste determination on their spent chemotherapy hood filters prior to being taken off-site by ENV. Mr. Wardlow stated that he was not sure. I informed Mr. Wardlow that SJMC must conduct a hazardous waste determination on their spent chemotherapy hood filters. An associated violation is noted in Section 5.0.

Clinical Waste - To aid in the prevention and control of methicillin-resistant *Staphylococcus aureus* (MRSA) infection in the hospital, diagnostic tests are conducted on patients whom were admitted and discharged. SJMC uses an agar plate method (Spectra MRSA method) and a polymerase chain reaction method (Xpert MRSA method) for the rapid detection of MRSA. See attachment 11 for the Spectra MRSA Detection Method material safety data sheet (MSDS). See attachments 12 and 13 for the Xpert MRSA Detection Method MSDS and Analytical Method. Mr. Thiele stated that their Spectra MRSA and Xpert MRSA wastes are collected with biohazardous waste (see photos #11, #12, and #19). From my review of the MSDS, their Spectra MRSA waste appears to be non-hazardous. From my review of the MSDS, it appears that their Xpert MRSA waste would exhibit the characteristic of corrosivity (D002). SJMC generates three to four cartridges of Xpert MRSA waste per day. I asked Mr. Thiele if SJMC had conducted a hazardous waste determination on their Xpert MRSA waste prior to disposal with biohazardous waste. Mr. Thiele stated "No." I informed Mr. Thiele that SJMC must conduct a hazardous waste determination on their Xpert MRSA waste. An associated violation is noted in Section 5.0.

Waste Stain - SJMC generates an average of 112 pounds of waste stain per month from their histology activities (see photo #10). Veolia Technical Solution (Port Arthur, Texas) disposes of their waste stain as D001 and F003 hazardous waste. At the Hazardous Waste Storage Area, I observed 28 one gallon hazardous waste storage containers of waste stain in storage (see photo #5). The storage containers were in good condition, closed, and labeled with the words "Hazardous Waste." However, I observed one hazardous waste storage container of waste stain not marked per the Department of Transportation (DOT) requirements, not marked with the date of accumulation, and not marked with the words "Hazardous Waste" (see photo #6). I asked Ms. Adkins if weekly inspections were conducted on their hazardous waste storage containers. Ms. Adkins stated "Yes" and provided me with their inspection records for review. From my review of their inspection records, it appeared that inspections records were not maintained from September 20, 2010 to Present. I asked Ms. Adkins if daily inspections of their Hazardous Waste Storage Area (waste handling area subject to spills) were conducted. Ms. Adkins stated "No." I informed Ms. Adkins that the one hazardous waste storage container of waste stain (located at the Hazardous Waste Storage Area) must be marked per the DOT requirements, marked with the date of accumulation, and marked with the words "Hazardous Waste." In addition, I informed Ms. Adkins that their weekly hazardous waste inspection records must be maintained and daily inspections of the Hazardous Waste Storage Area must be conducted. Associated violations are noted in Section 5.0.

Waste Formalin - SJMC generates an average of 136 pounds of waste formalin per month from their pathology activities. Veolia (Port Arthur, Texas) disposes of their waste formalin as non-hazardous waste. Ms. Lucas stated that their waste formalin is non-hazardous based on process knowledge. See attachment 14 for the Formalin MSDS. From my review of the MSDS, their waste formalin appears to be non-hazardous. At the Shipping Dock, I observed 29 one gallon storage containers of waste formalin in storage (see photos #15 and #16). The containers were in good condition, closed, and labeled as "Non-Hazardous Waste." The management of the containers appeared to be adequate. I reviewed SJMC's management of their waste formalin and no violations were noted.

Sterilization Waste - SJMC generates spent sterilization indicator tape and spent integrators from the sterilization of surgical instruments and equipment (see photos #8 and #9). Ms. Reed stated that their spent sterilization indicator tape and spent cartridges are disposed in the general trash. SJMC generates the following sterilization wastes: (1) two to three rolls of spent 3M 1228 indicator tape per month, (2) twenty spent 3M 1248 chemical indicator strips per day, (3) 120 spent 3M Comply 1243 integrators per day, (4) four to six rolls of spent 3M Comply 1222 indicator tape per day, and (5) twenty spent Steris LCC008 indicator strips per day. See attachments 15, 16, 17, 18, and 19 for the indicator tape and integrator MSDS. From my review of the MSDS, it appears that their spent 3M 1248 chemical indicator strips, spent 3M Comply 1243 integrators, spent 3M Comply 1222 indicator tape, and spent Steris LCC008 indicator strips are all non-hazardous. From my review of the MSDS, it appears that their spent 3M 1228 indicator tape would exhibit the toxicity characteristic leaching procedure characteristic of lead (D008). I asked Ms. Reed if SJMC had conducted a hazardous waste determination on their spent 3M 1228 indicator tape prior to disposal in the general trash. Ms. Reed stated "No." At the time of the inspection, Ms. Reed provided me with correspondence regarding the disposal of their spent 3M 1228 indicator tape. See attachment 20 for the 3M 1228 Indicator Tape Correspondence. From my review of the provided correspondence, I could not determine if SJMC's spent 3M 1228 indicator tape was RCRA hazardous or non-hazardous. I informed Ms. Reed that SJMC must conduct a hazardous waste determination on their spent 3M 1228 indicator tape. An associated violation is noted in Section 5.0.

Biohazardous Waste - SJMC's biohazardous waste consists of sharps, waste pharmaceuticals, MRSA waste, and chemotherapy waste (see photo #17). Stericycle (Springfield, Missouri) disposes of their biohazardous waste as non-hazardous waste. At time of the inspection, I determined that SJMC had not conducted a hazardous waste determination on their waste pharmaceuticals, MRSA waste, and chemotherapy waste (all disposed with biohazardous waste). Associated violations are noted in Section 5.0.

Barium Contrasting Media Waste - SJMC generates barium contrasting media waste (cups and containers) from their radiology activities. Ms. Cannon stated that their barium contrasting media is swallowed by the patient (as liquid or mixed with pudding) prior to conducting the radiological analysis. Ms. Cannon stated that any remaining barium contrasting media left in the drinking cups and/or pudding containers is disposed in the general trash. Ms. Cannon stated that their barium contrasting media waste is non-hazardous based on process knowledge. See attachment 21 for the Barium Sulfate MSDS. From my review of the MSDS, their barium contrasting media appears to be non-hazardous. I reviewed SJMC's management of their barium contrasting media waste and no violations were noted.

Developer and Fixer Waste - SJMC generates developer and fixer waste from one film developing unit on-site. Their developer/fixer waste is sent through a silver reclaimer prior to being discharged to the sanitary sewer (see photo #13). Safety Kleen (Springfield, Missouri) recycles their silver reclaimer unit quarterly. Ms. Cannon stated that their developer/fixer waste is non-hazardous based on process knowledge. See attachments 22 and 23 for the Developer and Fixer MSDS. From my review of the MSDS, their developer and fixer appear to be non-hazardous. I reviewed SJMC's management of their developer and fixer waste and no violations were noted.

Medical Film - Ms. Cannon stated that a majority of their radiological imaging is digital and no spent medical film or spent processing chemicals are generated from that process. Once a year, SJMC purges their old medical film and it is recycled by Safety-Kleen (Springfield, Missouri). At the Radiology Lab, I observed two 55-gallon storage containers of medical film (see photo #14). The containers were in good condition. The management of the containers appeared to be adequate. I reviewed SJMC's management of their medical film and no violations were noted.

Lead Aprons - SJMC generates four spent lead aprons per year from their radiological activities. Safety-Kleen (Springfield, Missouri) recycles their spent lead aprons. At the time of the inspection, I did not observe any spent lead aprons being accumulated on-site. I reviewed SJMC's management of their spent lead aprons and no violations were noted.

Lead Solder Waste - SJMC generates five to six lead solder contaminated rags per year for the cleaning of solder guns located at Biomedical Services. Mr. Wensch stated that their lead solder contaminated rags are disposed in the general trash. Mr. Wensch stated that their solder guns are wiped with a sponge (contained in the soldering unit) and/or wiped with a rag. Mr. Wensch stated that their sponges are the original set and have not been replaced (see photos #24 and #25). I asked Mr. Wensch if SJMC had conducted a hazardous waste determination on their lead solder contaminated rags prior to disposal in the general trash. Mr. Wensch stated "No." I informed Mr. Wensch that SJMC must conduct a hazardous waste determination on their lead solder contaminated rags. An associated violation is noted in Section 5.0.

Lead-Acid Batteries - SJMC generates two full 5 gallon storage containers of spent lead-acid batteries and alkaline batteries per month from the service of their biomedical equipment (see photos #26 and #27). At the Biomedical Services Department, I observed ten spent lead-acid batteries in storage (see photo #27). The management of the batteries appeared to be adequate. Call to Recycle (Atlanta, Georgia) recycles their spent lead-acid batteries. Their spent lead-acid batteries are being reclaimed per 40 CFR 266 Subpart G. I reviewed SJMC's management of their spent lead-acid batteries and no violations were noted.

Universal Waste-Lamps - SJMC generates universal waste-lamps from their re-lamping activities. Russell Benton Electric (Joplin, Missouri) recycles their universal waste-lamps. At the Universal Waste Storage Area (Electrical Closet), I observed 178 universal waste-lamps stored in open containers and not labeled with the words "Universal Waste-Lamps," "Waste Lamps," or "Used Lamps" (see photos #20-#23). I asked Mr. Lawrence if he was aware of the length of time of accumulation of their universal waste-lamps. Mr. Lawrence stated that he was not aware of the length of time of their universal waste-lamps accumulation. I asked Mr. Lawrence if their personnel are provided with training on the proper management of universal waste. Mr. Lawrence stated "No." I informed Mr. Lawrence that their universal waste-lamps must be stored in closed containers, labeled with the words "Universal Waste-Lamps," "Waste Lamps," or "Used Lamps," and the earliest date of accumulation must be demonstrated. In addition, I informed Mr. Lawrence that their personnel who manage universal waste must be provided with training on the proper universal waste management. Associated violations are noted in Section 5.0.

General Trash - General trash includes empty housekeeping/cleaning containers, restroom wastes, lunch wastes, barium contrasting media waste (non-hazardous waste), spent 3M 1228 indicator tape (hazardous waste determination not conducted), and lead solder contaminated rags (hazardous waste determination not conducted). Allied Waste (Joplin, Missouri) disposes of their general trash.

5.0 VIOLATIONS

5.0.1. Hazardous Waste Determinations Not Conducted (NOV #1)

According to 10 CSR 25-5.262(1) incorporating 40 CFR 262.11, a hazardous waste determination must be made on all solid wastes. A hazardous waste determination had not been made on the following:

Pharmacy

- Pharmacy waste (tablet capsules, oral liquids, and contents of partially used medications in vials and syringes) disposed with biohazardous waste.
- Partially used pharmaceuticals (generated from patient floors) sent to EXP and/or disposed with biohazardous waste.
- Four spent chemotherapy hood filters generated per year.

Throughout the Hospital

- Damaged, partially used, and patient contacted pharmaceuticals (pills, ointments, creams, tablets, nicotine patches, aerosol inhalers, etc.) disposed with biohazardous waste.
- Chemotherapy waste (dispensing equipment, intravenous bags, syringes, tubing, gloves, gowns, masks, and cleanup debris) disposed with biohazardous waste.

Microbiology Lab

- Three to four spent cartridges of Xpert MRSA waste disposed with biohazardous waste per day (see photos #11, #12, and #19).

Central Sterile

- Six rolls of spent 3M 1222 indicator tape disposed in the general trash per week.

Biomedical Lab

- Five to six lead solder contaminated rags disposed in the general trash per year.

5.0.2. Failure To Update Notification (NOV #2)

According to 10 CSR 25-5.262(2)3.B, hazardous waste generators must notify the MDNR of any updates to their notification of regulated hazardous waste activity. SJMC had not notified the MDNR of changes to their zip code, site contact, and owner of their facility.

5.0.3. Date Of Accumulation Not Marked On Hazardous Waste Storage Containers (NOV #3)

According to 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2), hazardous waste storage containers must be marked with the accumulation start date. The following hazardous waste storage container was not marked with the date of accumulation start date:

Hazardous Waste Storage Area

- One 1 gallon hazardous waste storage container of waste stain (see photo #6).
This violation was corrected at the time of the inspection (see photo #7).

5.0.4. Hazardous Waste Storage Container Not Marked "Hazardous Waste" (NOV #4)

According to 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(3), hazardous waste storage containers must be marked "Hazardous Waste." The following hazardous waste storage container was not marked :

Hazardous Waste Storage Area

- One 1 gallon hazardous waste storage container of waste stain (see photo #6).
This violation was corrected at the time of the inspection (see photo #7).

5.0.5. Weekly Hazardous Waste Inspection Records Not Maintained (NOV #5)

According to 10 CSR 25-5.262(2)(C)2.C(I) and (II) referencing 40 CFR 265.174, weekly inspections of hazardous waste storage containers must be conducted and inspection records must be maintained. Weekly hazardous waste inspections records were not maintained from September 20, 2010 to Present.

5.0.6. Daily Inspections of Waste Handling Areas Not Conducted (NOV #6)

According to 10 CSR 25-5.262(2)2.C(II), daily inspections of waste handling areas subject to spills must be conducted. I asked Ms. Adkins if daily inspections of their Hazardous Waste Storage Area (waste handling area subject to spills) were conducted. Ms. Adkins stated "No."

5.0.7. The Length Of Time Of Universal Waste-Lamps Accumulation Not Demonstrated (NOV #7)

According to 10 CSR 25-16.273(1) incorporating 40 CFR 273.15(c), the length of time of universal waste accumulation must be demonstrated. I asked Mr. Lawrence if he was aware of the length of time of accumulation of the 178 universal waste-lamps stored at the Universal Waste Storage Area (Electrical Closet). Mr. Lawrence stated that he was not aware of the length of time of their universal waste-lamps accumulation.

5.0.8. Universal Waste Management Training Not Provided (NOV #8)

According to 10 CSR 25-16.273(1) incorporating 40 CFR 273.16, employees who manage universal waste must be provided with training on the proper management of universal waste. I asked Mr. Lawrence if SJMC's personnel are provided with training on the proper management of universal waste. Mr. Lawrence stated "No."

5.0.9. Universal Waste-Lamps Not Stored In A Closed Container (NOV #9)

According to 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(d)(1), universal waste-lamps must be stored in a closed container. The following universal waste-lamps were not stored in a closed container:

Electrical Closet

- 178 universal waste-lamps (see photos #20-#23).

5.0.10. Universal Waste Not Labeled With The Words "Universal Waste-Lamps," "Waste Lamps," or "Used Lamps (NOV #10)

According to 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(e), each universal waste-lamp or universal waste-lamp storage container must be marked as "Universal Waste-Lamps," "Waste Lamps," or "Used Lamps." The following universal waste-lamps were not properly marked:

Electrical Closet


- 178 universal waste-lamps (see photos #20-#23).

Hazardous Waste Storage Container Not Marked Per The DOT Requirements During The Entire On-Site Storage Period

This issue was inadvertently left off the *Notice of Violation* form. According to 10 CSR 25-5.262(2)(C)1, hazardous waste storage containers must be marked per the DOT requirements during the entire on-site storage period. After further review of inspection correspondence (inspection notes and photographs), I identified one 1 gallon hazardous waste storage container of waste stain (located at the Hazardous Waste Storage Area) not labeled per the DOT requirements (see photo #6). At the time of the inspection, Ms. Adkins marked the hazardous waste storage container per the DOT requirements. *This issue was corrected at the time of the inspection* (see photo #7).

6.0 SUMMARY

I reviewed all applicable SQG requirements and all observed violations are noted in Section 5.0.



Michael J. Martin
Environmental Scientist
Date: May 31, 2011

Attachments

- 1) *Region 7 Multi-Media Screening Checklist* (2 pages)
- 2) Facility Layout (1 page)
- 3) Campus Map (2 pages)
- 4) *MDNR SQG Inspection Checklist* (9 pages)
- 5) Exit Briefing Attendance List (1 page)
- 6) *Confidentiality Notice* (1 page)
- 7) *Receipt for Documents and Samples* (1 page)
- 8) *Notice of Violation* (4 pages)
- 9) EPA RCRA Handler Information Report (1 page)
- 10) 2009-2011 Uniform Hazardous Waste Manifests (19 pages)
- 11) Spectra MRSA Detection Method MSDS (4 pages)
- 12) Xpert MRSA Detection Method (10 pages)
- 13) Xpert MRSA Analytical Method (9 pages)
- 14) Formalin MSDS (7 pages)
- 15) 3M 1228 Indicator Tape MSDS (7 pages)
- 16) 3M 1248 Indicator Strip MSDS (7 pages)
- 17) 3M Comply 1243 Integrators MSDS (8 pages)
- 18) 3M Comply 1222 Indicator Tape MSDS (8 pages)
- 19) Steris LCC008 Indicator Strips MSDS (1 page)
- 20) 3M 1228 Indicator Tape Correspondence (3 pages)
- 21) Barium Sulfate MSDS (3 pages)
- 22) X-Ray Developer MSDS (2 pages)
- 23) X-Ray Fixer MSDS (2 pages)

Photo Log (3 pages)

Photographs (15 pages/27 photos)

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REGION VII MULTIMEDIA SCREENING CHECKLIST

Facility Name: St. John's Regional Medical Center Inspector: Michael J. Martin
 Facility Ownership: Sisters of Mercy Primary Media: RCRA
 Street: 2727 McClelland Blvd Inspector Phone Ext.: 7149
 City: Joplin State: MO Zip: 64801 Date: 05/4-5/2011
 Phone: (314) 579-6100 Facility Contact: Spencer Dobbs (417) 625-2007 SIC/NAICS Code: 62211
 Number of Employees: 1,856 Work Hours/Shifts: 24hrs day / 7 days a week Facility Subject to OSHA regulations Yes ☒ No ☐
 Main facility activity, major process chemical(s) & description: Hospital (Trauma Center)

(Check all that apply): painting/coating (water-based ☒, solvent-based ☒, printing ☐, reacting ☐, formulating ☐, distilling ☐,
 water treatment ☐, refrigeration ☐, manufacturing ☐, parts washers/degreasing (water-based ☐, halogenated-based ☐,
 non-halogenated-based ☐, combustion (boiler, furnaces, oxidizers) ☐, plating (chrome ☐, other _____).

ENVIRONMENTAL JUSTICE (Note: Forward to EJ if a concern is identified during your inspection)

1. Is the facility located in an apparent low income area (e.g., with many abandoned and dilapidated properties)? No ☒ (stop) Yes ☐
 If yes, is facility less than 1000 feet from nearest routinely occupied property (house, school, etc.)? No ☐ (stop) Yes ☐ **Forward to EJ**

EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW ACT (EPCRA) & TOXIC SUBSTANCE CONTROL ACT (TSCA)

1. Did facility file a Tier II report with fire department, Local & State Emergency Planning Committee? Yes ☒ No ☐ **Forward to EPCRA**
 2. Did facility manufacture, import, or process (formulate, blend, package) >25,000 lbs of a chemical or >100 lbs of a Persistent Bioaccumulative Toxin (lead, mercury, or polycyclic aromatic compounds) at any time over the last 5 years? No ☒ (stop) Yes ☐ **Forward to EPCRA**
 3. Has the facility: **If any box in question 3 is marked - Forward to EPCRA**
 a. Stored ≥500 lbs of ammonia ☐, ≥100 lbs of chlorine ☐, or ≥10,000 lbs of an industrial chemical ☒, at any time over the last 2 years? ☒
 b. Stored ≥10,000 lbs of pressurized flammable material (propane, methane, butane, pentane, etc.) at any time over the last 2 years? ☐
 c. Used ≥10,000 lbs of ammonia ☐, chlorine ☐, halogenated solvents ☐, solvent-based paints ☐, or solvents ☐, or nitrated compound, over the last calendar year? ☐
 d. Generated ≥ one half pound of metal dusts, fumes, or metal turnings, over the last calendar year? ☐
 4. Does the facility have any oil filled electrical equipment No ☐ (stop) Yes ☒ **Forward to TSCA and ask** Has facility tested oil-filled equipment to determine PCB content; No ☐ Yes ☒ number containing PCBs greater than 50 ppm 0 and percent of all equipment tested 100% Is equipment leaking (including wet or weeping equipment)? No ☒ Yes ☐ **- Get Photo**

CLEAN WATER ACT (CWA) - National Pollution Discharge Elimination System (NPDES), Industrial Pretreatment, Storm Water, & Wetlands

1. Does the facility discharge any wastewater to storm sewers, surface water, or the land? No ☒ (stop) Yes ☐
 If yes, are all wastewater discharges permitted? Yes ☐ No ☐ **Forward to CWA**
 2. Does the facility have process wastewaters that are discharged to a city POTW (Publicly Owned Treatment Works)? No ☒ (stop) Yes ☐
 If yes, are the discharges permitted by: State? ☐, City? ☐ - If yes, Stop here. No ☐ **Forward to CWA**
 If yes, does the city have a state or EPA approved pretreatment program? Yes ☐ No or Don't Know ☐ **Forward to CWA**
 3. During rainfall events, can storm water carry pollutants from manufacturing, processing, storage, disposal, shipping and receiving areas, or from construction sites >1 acre, to storm sewers or surface water? No ☒ (stop) Yes ☐
 If yes, does the facility have an NPDES permit for these storm water discharges? Yes ☐ No ☐ **Forward to CWA**
 4. Did you see any wastewater discharges not identified by the facility? No ☒ (stop) Yes ☐ - Identify location, time, appearance of discharge: **(Get Photo) Forward to CWA**
 5. Does the facility have any wetland areas (e.g. streams, ponds, or temporarily wet areas)? No ☒ (stop) Yes ☐
 If yes, have any wetland areas been dredged, filled, channelized, dammed, or had gravel removed from them within the last 5 years? No ☐ (stop) Yes ☐ - Identify location and timeframe **(Get Photo) FWD to Wetlands**

SAFE DRINKING WATER ACT (SDWA) - Underground Injection Control (UIC) & Public Water System (PWS)

1. Does facility discharge any liquids to the subsurface (septic systems, disposal wells, cesspools, etc.)? No ☒ (stop) Yes ☐ *Forward to UIC*
If yes, do these liquid wastes consist of sanitary wastewater only? Yes ☐ No ☐
2. Does facility provide drinking water to 25 people or more from its own source (private well, pond, etc.)? No ☒ (stop) Yes ☐ *Forward to PWS*
If yes, does the facility test or monitor its drinking water in order to comply with state regulations? Yes ☐ No ☐

CLEAN AIR ACT (CAA) and CFCs

1. Do you see any dense, non-steam, smoke or dust emissions leaving the facility property? No ☒ Yes ☐ *Forward to CAA*
Source _____ (Get Photo)
2. Does the facility have any new air pollution emitting equipment that was constructed or installed in the past 5 years? No ☐ (stop) Yes ☐
If yes, is equipment permitted? Yes ☐ No ☐ *Forward to CAA Describe:* _____
3. Does the facility have any cooling units that contain >50 lbs of refrigerant? No ☐ (stop) Yes ☒ *Forward to CFC*
If yes, are these units: Self-serviced? ☒ Contract Serviced? ☐ - Service Company: Not Known
4. Does the facility have a refrigeration process that contains more than 10,000 lbs of ammonia? No ☒ (stop) Yes ☐ *Forward to EPCRA/RMP*
5. Does the facility service motor vehicle air conditioning systems? No ☒ (stop) Yes ☐ *Forward to CFC*

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) and UNDERGROUND STORAGE TANKS (UST)

1. Does the facility generate more than 30-gallons (220 lbs./100kg) of hazardous waste per month or at any one time? No ☐ (stop) Yes ☒
If yes, does facility have an EPA Hazardous Waste Identification Number? Yes ☒ (stop) No ☐ *Forward to RCRA*
2. Is hazardous waste treated ☐, stored >90-days ☐, burned ☐, land filled ☐, put in surface impoundments ☐ or waste piles ☐?
No ☒ (stop) Yes ☐ If yes, is the facility permitted for above described activity? Yes ☐ No ☐ *Forward to RCRA*
3. Did you see or does the facility have any large quantities of materials **that the facility claims to be non-hazardous waste material** (>10 drums, roll-offs, waste piles, etc. - exclude clean office trash, cardboard, & packaging type wastes)? No ☒ (stop) Yes ☐

Material Claimed To Be Non-Hazardous**How does the facility know these wastes are non-hazardous?**

Testing, industry or manuf. info., MSDS, etc. ☐; None available ☐ *Forward to RCRA*

Testing, industry or manuf. info., MSDS, etc. ☐; None available ☐ *Forward to RCRA*

Testing, industry or manuf. info., MSDS, etc. ☐; None available ☐ *Forward to RCRA*

Testing, industry or manuf. info., MSDS, etc. ☐; None available ☐ *Forward to RCRA*

Testing, industry or manuf. info., MSDS, etc. ☐; None available ☐ *Forward to RCRA*

4. Did you see any leaking hazardous waste containers, drums, or tanks? No ☒ Yes ☐ *Forward to RCRA*
Describe: _____ (Get Photo)
5. Did you see any signs of spills or releases (e.g., dead or stressed vegetation, stains, discoloration)? No ☒ Yes ☐ *Forward to RCRA*
Describe: _____ (Get Photo)
6. Did you see any chemical or waste handling practices that concern you (access to children/public)? No ☒ Yes ☐ *Forward to RCRA & EPCRA Describe:* _____ (Get Photo)
7. Does the facility have any past or present underground petroleum product or hazardous material tanks? No ☐ Yes ☒ *Forward to UST*
8. Does the facility have any underground fuel tanks for emergency generators? No ☐ Yes ☒ *Forward to UST*

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC)

1. Does the facility have any aboveground oil tanks (petroleum, synthetic, animal, fish, vegetable), with an aggregate volume >1,320 gallons?
No ☒ (stop) Yes ☐ - Does the facility have a certified SPCC Plan? Yes ☐ No ☐ *Forward to SPCC*
If yes, are there secondary containment systems for the tanks? Yes ☐ No ☐ *Forward to SPCC*
If yes, are any tanks leaking where oil could reach waters of the State or U.S.? No ☐ Yes ☐ (Get Photo) *Forward to SPCC*

ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)

1. Does your facility have an EMS? No ☒ Yes ☐
2. Is the facility's EMS ISO 14001 certified? No ☒ Yes ☐

***PLEASE TAKE PHOTOS TO DOCUMENT POTENTIAL PROBLEMS**

ST. JOHN'S REGIONAL MEDICAL CENTER FACILITY LAYOUT

1st Floor- Receiving Dock, Materials Management, Food Services, Biomedical Services, Radiation Oncology, Mercy Conference Centers, Business Office, Human Resources, Security Dispatcher, Laboratory, Cafeteria, Hospital Pharmacy.

2nd Floor- Surgery Center (Outpatient, PACU, main OR, Endoscopy lab), Administration, Library, Medical Affairs, Medical Records, Radiology, Mercy Pharmacy, Security, Cardiopulmonary (Respiratory, Cardiology), Emergency Services, Registration Office.

3rd Floor — 3 East- ICU, Cardiac Surgical, and Outpatient Care Unit (use East elevators) 3 Central- CV Holding, Cath Labs, CVOR (use West elevators)
3 West- CVICU (use West elevators)

4th Floor- 4 East- Medical/Oncology
4 West- Medical/Renal

5th Floor- (use East elevators only)
5 East- Surgical
5 Central & 5 West- Hawthorn Center (Psychiatric)

6th Floor- 6 East- Orthopedics
6 Central- Acute Physical Therapy, Social Services, Clinical Nutrition
6 West- Neurology / Neurosurgery

7th Floor- 7 East- Medical Cardiology (use East elevators)
7 Central- CCU (use West elevators)
7 West- Pediatrics (use West elevators)

8th Floor- 8 East- Obstetrics

9th Floor- 9 East- Education Offices and Classroom, Cardiac Rehab Classroom, Sleep Disorders, Cardiopulmonary Rehab, Heart Failure Clinic, Computer (IS) Classroom.

St. John's Medical Staff By Specialty

Allergy/Immunology		
Michael Joseph, MD	(417) 624-0050	
David Straub, MD	(417) 782-1343	
Anesthesiology		
Kalal R. Huff, MD	(417) 625-2403	
Bradford L. Ramsey, DO	(417) 625-2403	
Tamara Rice, MD	(417) 625-2403	
Mary Stuppy, MD	(417) 625-2403	
Clifford Turk, MD	(417) 625-2403	
Tacee E. Walker, DO	(417) 625-2403	
Xi Zhu, MD	(417) 625-2403	
Cardiology		
Paul Callicoa, MD	(918) 786-7667	
Francis Corcoran, MD	(417) 781-5387	
William Craig, MD	(417) 781-5387	
Ali Hammad, MD	(620) 232-5705	
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Bashar Marji, MD	(620) 231-5965	
Thomas Moore, MD	(417) 627-9993	
Shawn Sabapathy, MD	(417) 781-5387	
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Richard Wolf, MD	(417) 206-3729	
Cardiology Electrophysiology		
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Joseph Graham, MD	(417) 782-2190	
Diederik F. Meursing, MD	(417) 782-2190	
Steven Meyer, MD	(417) 782-2190	
Dentistry		
Dan Haney, DDS	(417) 781-3182	
John (Jay) Joseph, DDS	(417) 781-3020	
Richard Reed, DDS	(417) 623-2440	
Dermatology		
Mark Matlock, MD	(417) 624-0440	
Derek Towery, MD	(417) 624-0440	
Ear, Nose, Throat		
R. Hilton McDonald, DO	(417) 627-8566	
Frank Shagets, MD	(417) 623-5111	
Renee Walker, DO	(417) 781-4613	
Emergency Medicine		
John Burnsed, DO	(417) 625-2300	
Barbara Chilton, DO	(417) 625-2300	
Charles Featherly, DO	(417) 625-2300	
Frank L. Frederick, DO	(417) 625-2300	
David Hagedorn, MD	(417) 625-2300	
Ryan Hall, DO	(417) 625-2300	
Karl F. Keuffman, MD	(417) 625-2300	
Michael Kutmas, MD	(417) 625-2300	
Stanley A. Mounts, DO	(417) 625-2300	
Gary Randolph, MD	(417) 625-2300	
James Riscoe, MD	(417) 625-2300	
D. Paul Schaefer, DO	(417) 625-2300	
Sean Smith, DO	(417) 625-2300	
Kenneth C. Stewart, MD	(417) 625-2300	
Emergency Medicine/Family Practice		
James L. Compton, DO	(417) 625-2300	
ExpressCare		
Maria F. Bruce, MD	(417) 623-2207	
Glen King, DO	(417) 623-2207	
Rafael Santiago, MD	(417) 451-2060	
Family Practice		
Stephen Bazzano, DO	(620) 783-1358	
F. Rollin Bland, MD	(918) 786-4448	
Phillip Bortnes, DO	(620) 795-2525	
Randall Cramer, DO	(417) 673-1301	
Cynthia Gray, MD	(417) 624-4060	
J. Wayne Dailey, DO	(417) 782-5230	
James C. Eaton, DO	(620) 856-2182	
Tracy Godfrey, MD	(417) 624-4060	
John Goff, MD	(417) 782-3600	
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Walter Hargett, MD	(417) 451-2060	
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Clarence Jousra, DO	(417) 682-5508	
Mary K. Kennedy, DO	(417) 781-0408	
Russell L. Kennedy, DO	(417) 781-0408	
William Kessler, MD	(417) 782-6767	
Michael Knapp, DO	(417) 781-1929	
Orville Mehaffy, MD	(417) 782-6600	
Timothy O'Keefe, MD	(417) 782-6767	
Roger Sacry, MD	(417) 359-8646	
Darcy Selenke, MD	(620) 429-3636	
Kent Suterer, DO	(417) 359-8803	
Chad E. Wagoner, MD	(417) 359-8803	
Peter Warner, MD	(417) 781-0408	
Steven K. Younger, MD	(417) 451-2060	
Gastroenterology		
Sudhakar Ancha, MD	(417) 623-5250	
Larry Deffenbaugh, DO	(417) 782-4701	
David Seidl, MD	(417) 781-7110	
Allan P. Weston, MD	(417) 781-7110	
X. John Wu, MD	(417) 206-4928	
Gynecology		
Christopher Roberts, MD	(417) 782-1271	
Hospitalist		
Syed S. Anwer, MD	(417) 659-6336	
Salim Baghli, MD	(417) 659-6336	
Archana Chaudhari, MD	(417) 659-6336	
Connie Drapcho, MD	(417) 659-6346	
Julie Hoffman, DO	(417) 659-6346	
Kamel Madaraty, MD	(417) 659-6336	
Sanjay Malhotra, MD	(417) 659-6336	
Maan Moualla, MD	(417) 659-6336	
Infectious Disease		
Eden Esquerra, MD	(417) 781-8688	
Dafer W. Haddadin, MD	(417) 347-8322	
Internal Medicine		
Dewey P. Ballard, MD	(417) 782-1600	
Bernard Bettasso, MD	(417) 624-8823	
Mohd I. Boda, MD	(417) 782-1600	
Randy Bowles, MD	(417) 781-0224	
Tyson Burden, MD	(620) 856-3469	
Jasbir Dhawan, MD	(417) 347-8740	
W. Heath Dillard, MD	(417) 359-8803	
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Michael D. Nickell, MD	(417) 627-1300	
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W. Dale Rankin, MD	(417) 782-1600	
Jack Rhoads, MD	(417) 626-8200	
Dennis Smith, MD	(417) 623-5610	
S. Kenneth Turner, DO	(417) 782-3032	
Kimberly Wood, MD	(417) 624-4701	
Michael Yuhus, MD	(417) 623-5044	
Nephrology		
Ahmed Aboul-Magd, MD	(417) 782-5000	
Neurology		
Taylor C. Bear, MD	(417) 659-6876	
Neurosurgery		
Brian V. Curtis, MD	(417) 659-6876	
Arthur Daus, MD	(417) 624-7700	

continued

Alphabetical Listing

Members of the Medical Staff at

CATHOLIC HEALTH INITIATIVES

St. John's

Joplin, Missouri

Wound Care / Hyperbaric Medicine
Joseph Newman, MD (417) 659-6967

St. John's Regional Medical Center is a 367-bed facility, serving 19 counties in Missouri, Oklahoma, Kansas, and Arkansas, providing state-of-the-art healthcare services, specializing in cardiology, orthopedics, neurosciences, and oncology. St. John's has been leading the way in healthcare throughout the four-state area for more than 100 years and has earned the Gold Seal of Approval™ from The Joint Commission. St. John's is the only hospital in Joplin that currently holds this distinction.



THOMSON TOP HOSPITALS
THOMSON TOP HOSPITALS
THOMSON TOP HOSPITALS

Helpful Phone Numbers

GENERAL INFORMATION:	417-781-2727
Center for Breast Care	417-625-CARE
Center for Cancer Care	417-625-2488
Center for Heart Care	417-625-2102
Center for Behavioral Health Services	417-625-2354
Center for Orthopaedic Care	417-625-2369
Emergencies	911
ExpressCare	417-623-2207
ExpressCare at Neosho	417-451-2060
Health Connection	417-625-2388
HealthFirst	417-625-2486
Home Care Services	417-781-2004
Hospice	417-623-8164
Medical Equipment Co.	417-627-8424 or 800-874-7048
Medical Group	417-627-8966 or 877-627-8700
Medical and Consumer Health Library	417-659-6725
Mercy Discovery Center	417-625-2950
Mercy Regional Foundation	417-625-2266
Poison Control Center	417-625-2305
Rehabilitation Center	417-625-2196
Sister Kevin Kirwan Birthing Center	417-625-BABY
Sleep Disorder Center	417-625-2808
SportsCare	417-625-2811
Wound Healing & Hyperbaric Medicine Center	417-659-6967

St. John's Referral One
Physician & Service Referrals
417-625-2000

Click here for online health information
www.stj.com

When it matters most. | Think St. John's.

CATHOLIC HEALTH INITIATIVES
St. John's
Joplin, Missouri

2727 McClelland Boulevard Joplin, Missouri 64804

St. John's
CATHOLIC HEALTH INITIATIVES
When it matters most. | Think St. John's.
Medical Staff
2009

St. John's Regional Medical Center is proud to recognize our Medical Staff's Dedication and Service to the hospital and the community.

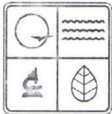
2727 McClelland Boulevard, Joplin
www.stj.com

Attachment 3

St. John's Regional Medical Center
Campus Map

Off-Campus Locations:

St. John's Home Health/Hospice 4500 East 32nd St. Joplin, MO 64804	St. John's Medical Group at Carthage 1615 Hazel Avenue	St. John's Medical Group at Neosho 2550 Lusk Drive	St. John's SportsCare 1531 West 32nd St. - Ste. 109 Joplin, MO 64804	St. John's Maude Norton Memorial Hospital 220 North Pennsylvania Columbus, KS 66725	St. John's MedFlight II based in Nevada, MO
St. John's Medical Equipment 3120 South Main St. - Ste. 10 Joplin, MO 64804	St. John's ExpressCare 1313 South Range Line Joplin, MO 64801	St. John's Medical Group at Oswego 805 Barker Drive	St. John's Medical Group at Webb City 1715 South Madison - Ste. 13		
St. John's Medical Group Family Care Center Specialty Clinics 3126 Jackson Joplin, MO 64804	St. John's ExpressCare 2550 Lusk Drive Neosho, MO 64850				
St. John's Medical Group at Baxter Springs 445 East 10th St.	St. John's Medical Group at Columbus 101 West Sycamore				



MISSOURI DEPARTMENT OF NATURAL RESOURCES
HAZARDOUS WASTE PROGRAM

SMALL QUANTITY GENERATOR INSPECTION CHECKLIST

S

FOR FACILITIES THAT GENERATE/ACCUMULATE < 1,000 Kg (2,200 lbs, OR APPROXIMATELY FIVE DRUMS < 2.2 lbs
OF ACUTELY HAZARDOUS WASTE)

NAME St. John's Regional Medical Center		DATE May 4-5, 2011		EPA ID NUMBER MOD076262500	
ADDRESS 2727 McClelland Blvd.		RESOURCE RECOVERY NUMBER		MO ID NUMBER	TELEPHONE NUMBER WITH AREA CODE (417) 625-2007
CITY Joplin	COUNTY Jasper	ZIP CODE 64804		YEARS AT SITE -	NUMBER OF EMPLOYEES 1,856
DATE OF LAST INSPECTION <i>No previous inspection</i>		REGIONAL OFFICE <input type="checkbox"/> KCRO <input type="checkbox"/> NERO <input type="checkbox"/> SERO <input type="checkbox"/> SLRO <input type="checkbox"/> SWRO		TRACKING NUMBER	
PRIMARY CONTACT NAME Spencer Dobbs			PRIMARY CONTACT TITLE Safety Officer		
SECONDARY CONTACT NAME Michael Wardlow			SECONDARY CONTACT TITLE Corporate Responsibility Manager		

CHECKLIST ATTACHMENTS

Used Oil Generator

☐ Yes ☒ No

Resource Recovery

☐ Yes ☒ No

Tank Attachment

☐ Yes ☒ No

Universal Waste Attachment

☒ Yes ☐ No

DESCRIPTION OF THE FACILITY'S OPERATION AND PLANT

Hospital.

WASTE STREAMS

DESCRIBE EACH WASTE STREAM GENERATED (INCLUDING THE PRODUCTION PROCESS)	GENERATION RATE	EPA WASTE CODES	DISPOSITION
1. See the Inspection Report.			
2.			
3.			
4.			
5.			
6.			

A. GENERAL			COMMENTS
1. <input type="checkbox"/> N <input checked="" type="checkbox"/> Y <input type="checkbox"/> NA	Registered as a hazardous waste generator - Section 260.380.1(1) RSMo and 10 CSR 25.5.262(2)(A).	1	
2. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Facility determines if waste is hazardous - 10 CSR 25-5.262(1) incorporating 40 CFR 262.11.	1	
3. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Uses a licensed hazardous waste transporter - Section 260.380.1(5) RSMo.	1	
4. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Uses authorized hazardous waste Treatment, Storage or Disposal, or TSD, facility or Resource Recovery facility - Section 260.380.1(7) RSMo.	1	
5. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Does not operate as a TSD - Section 260.390.1(1) RSMo.	1	
6. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Facility has updated notification as required - 10 CSR 25-5.262(2)3.B.	2	
7. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Materials are not accumulated speculatively - 10 CSR 25-4.261 incorporating 40 CFR 261.1(c)(8).	2	
8. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Facility can demonstrate legitimate recycling - 10 CSR 25-4.261 incorporating 40 CFR 261.2(f).	2	
PART 1: WALK-THROUGH INSPECTION			
B. PRETRANSPORT, CONTAINERIZATION AND STORAGE			COMMENTS
1. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Storage does not exceed 180 days or 270 days if transported > 200 miles - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d) or 40 CFR 262.34(e).	1	
2. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.171.	1	
3. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.172.	1	
4. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Containers closed in storage - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.173(a).	1	
5. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Containers storing incompatible waste separated or protected from each other by a dike, berm or wall - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.177(c).	1	
6. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Containers of ignitable or reactive waste stored > 50 ft. from property line (or meet requirements) - 10 CSR 25-5.262(2)(C)6 referencing 40 CFR 265.176 as amended by 10 CSR 25-7.265(2)(1) 7 & 8.	2	
7. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Waste packaged/labeled/marked per Department of Transportation during entire on-site storage period - 10 CSR 25-5.262(2)(C)1.	2	
8. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Date of accumulation marked on containers - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2).	2	
9. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Containers protected from contact with accumulated liquids - 10 CSR 25-5.262(2)(C)2.D(II).	2	
10. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Containers clearly marked "Hazardous Waste" - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(3).	2	
11. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Facility inspected and maintained (weekly) - 10 CSR 25-5.262(2)(C)2.C(I)&(II) referencing 40 CFR 265.174.	2	
12. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Daily inspection of areas subject to spills, i.e., waste handling areas - 10 CSR 25-5.262(2)2.C(II).	2	

MO 780-1602 (01-11)

B. PRETRANSPORT, CONTAINERIZATION AND STORAGE

N Y NA			
13.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Adequate aisle space is available - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.35.		2
14.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Placards available for transporter - 10 CSR 25-5.262(1) incorporating 40 CFR 262.33.		2
15.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Precautions are taken to prevent accidental ignition or reaction of ignitable or reactive wastes, including confining smoking and open flame to specially designated locations and conspicuously placing "No Smoking" signs by ignitable or reactive wastes - 10 CSR 25-5.262(2)(C)2.F(II).		2

C. SATELLITE ACCUMULATION**COMMENTS**

1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Containers kept closed - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.173(a).		1
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.171.		1
3.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.172.		1
4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Quantities accumulated not exceeding 55 gallons (1 quart of acutely hazardous wastes) - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1).		1
5.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Satellite containers go to storage within 3 days of filling - 10 CSR 25-5.262 incorporating 40 CFR 262.34(c)(2).		1
6.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Container marked identifying contents and beginning date - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(ii) as modified by 10 CSR 25-5.262(2)(C)3.		2
7.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Stored in satellite areas less than 1 year - 10 CSR 25-5.262(2)(C)3.		2
8.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Satellite containers stored at or near the point of waste generation and under the control of the operator - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1).		2

D. PREPAREDNESS, PREVENTION AND EMERGENCY PROCEDURES**COMMENTS**

1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Facility operated and maintained to minimize the possibility of an emergency - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.31.		1
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Adequate and proper spill control, decontamination and safety equipment available (fire blankets, respirators, Self Contained Breathing Apparatus, absorbents, etc.) - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.32 as amended by 10 CSR 25-5.262(2)(C)2.G.		2
3.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Adequate water supply and fire control equipment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(a)(4) referencing 40 CFR 265.32(c) and (d).		2
4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Communication and emergency equipment tested and maintained - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.33.		2
5.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Emergency Coordinator's name and phone number posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)(A).		2
6.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Telephone number of fire department posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)(C).		2

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D. PREPAREDNESS, PREVENTION AND EMERGENCY PROCEDURES			COMMENTS
7. <input type="checkbox"/> N <input checked="" type="checkbox"/> Y <input type="checkbox"/> NA	Location of fire extinguisher and spill control equipment posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)(B).	2	
8. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Employees familiar with waste handling and emergency procedures - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(iii).	2	
9. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Device in the hazardous waste operation area capable of summoning emergency assistance - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.34(a).	2	
10. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Telephone or two-way radio on-site and capable of summoning local fire or police department, or local or state emergency response teams - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32(b).	2	
11. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Arrangements with local emergency agencies - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.37.	2	
12. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Emergency coordinator(s) on premise or on call - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(i).	2	
PART 2: RECORDS INSPECTION			
E. MANIFESTS			COMMENTS
1. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Facility uses manifest system or wastes reclaimed under contractual agreement - Section 260.380.1(6) RSMo and 10 CSR 25-5.262(2)(B) or 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(e)1.	1	
2. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Tests waste or uses knowledge of waste to determine if the waste is restricted from land disposal - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).	1	
3. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Generator maintains a copy of the reclamation agreement on-site for at least three years after expiration of agreement - 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(e)(2).	2	
4. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Manifests maintained for a three year period - 10 CSR 25-5.262(1) incorporating 40 CFR 262.40(a).	2	
5. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Generator's EPA ID number - 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(a) as amended by 10 CSR 25-5.262(2)(B)1.	2	
6. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Generator's name, address and phone number - 10 CSR 25-5.262(2)(B)1.	2	
7. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	All transporter's names and EPA ID numbers - 10 CSR 25-5.262(2)(B)1 & 2.	2	
8. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Designated facility name, address, phone number and EPA ID numbers - 10 CSR 25-5.262(2)(B)1 and 2.	2	
9. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Department Of Transportation shipping name, Hazard class and waste ID number (Reportable Quantities - if required) - 10 CSR 25-5.262(2)(B)1 & 2.	2	
10. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Containers and Quantity - 10 CSR 25-5.262(2)(B) 1 and 2.	2	
11. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Manifest signed and dated - 10 CSR 25-5.262(2)(B) 1.	2	
12. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Manifest returned within 35 days - or exception report submitted within 45 days - 10 CSR 25-5.262(2)(D)2.C.	2	
13. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	"Land-Ban" notification/certification sent with manifests or with first shipment - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).	2	
14. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Notification/Certification includes correct EPA hazardous waste number, corresponding treatment standards, manifest number and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(b).	2	

COMMENTS: INCLUDE DISCUSSION OF FACILITY'S WASTE MINIMIZATION PLAN

CHECK ALL POTENTIAL MULTI-MEDIA VIOLATIONS AND IMPACTS (SPECIFY AND COMMENT BELOW)

Air Pollution Control	Public Drinking Water	Solid Waste Management	Hazardous Waste	Water Pollution Control	
<input type="checkbox"/> Fugitive Dust <input type="checkbox"/> Particulate <input type="checkbox"/> Burning <input type="checkbox"/> Asbestos <input type="checkbox"/> Odors <input type="checkbox"/> Toxics <input type="checkbox"/> Other	<input type="checkbox"/> Taste & Odors <input type="checkbox"/> Bacteria <input type="checkbox"/> Pressure <input type="checkbox"/> Color <input type="checkbox"/> Flow <input type="checkbox"/> Toxics <input type="checkbox"/> Other	<input type="checkbox"/> Open Dumps <input type="checkbox"/> Littering <input type="checkbox"/> Waste Tire <input type="checkbox"/> Dump <input type="checkbox"/> SLF <input type="checkbox"/> Other	<input type="checkbox"/> Transportation <input type="checkbox"/> PCBs <input type="checkbox"/> USTs/LUSTs <input type="checkbox"/> Other	<input type="checkbox"/> Animal Waste <input type="checkbox"/> Bypassing <input type="checkbox"/> Treatment <input type="checkbox"/> Plant Operation <input type="checkbox"/> Sawdust <input type="checkbox"/> Sludge	<input type="checkbox"/> Single Family <input type="checkbox"/> Ground Water <input type="checkbox"/> Storm Water <input type="checkbox"/> Toxics/UST <input type="checkbox"/> Other

COMMENTS

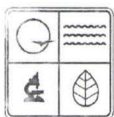
INSPECTOR'S SIGNATURE

Michael J. Modi

DATE

04/05/2011

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
HAZARDOUS WASTE PROGRAM

SMALL QUANTITY GENERATOR –UNIVERSAL WASTE ATTACHMENT

S-U

A small quantity handler of universal waste does not accumulate 5,000 kg or more total of all types of universal waste at any time.

NAME		DATE	EPA ID NUMBER		MO ID NUMBER
ADDRESS			TELEPHONE NUMBER WITH AREA CODE	RR NUMBER	
CITY	COUNTY	ZIP CODE	YEARS AT SITE	DATE OF LAST INSPECTION	
CONTACT NAME		CONTACT TITLE	NUMBER OF EMPLOYEES		

M. GENERAL

COMMENTS

N	Y	NA			
1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does not dispose of universal waste – 10 CSR 25-16.273(1) incorporating 40 CFR 273.11(a).	1
2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does not dilute or treat universal waste except as provided by 40 CFR 273.17 or 40 CFR 273.13 – 10 CSR 25-16.273(1) incorporating 40 CFR 273.11(b).	1
3.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does not accept universal waste pesticides from other handlers unless operating a universal waste pesticide collection program – 10 CSR 25-16.273(2)(B)1.	2
4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Universal waste accumulated for less than one year from the date generated or received from another handler – 10 CSR 25-16.273(1) incorporating 40 CFR 273.15(a).	2
5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Can demonstrate the length of time universal waste has been accumulated from the date it becomes a waste or is received (marking, labeling, inventory, dated area, or other valid method) – 10 CSR 25-16.273(1) incorporating 40 CFR 273.15(c).	2
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Accumulates universal waste for only one year unless able to demonstrate activity is solely for the purpose of accumulating quantities to facilitate proper recovery, treatment or disposal – 10 CSR 25-16.273(1) incorporating 40 CFR 273.15(b).	2

N. PREPAREDNESS AND EMERGENCY TRAINING

COMMENTS

1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Immediately contains all releases of universal wastes and universal waste residues – 10 CSR 25-16.273(1) incorporating 40 CFR 273.17(a).	1
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Determines if materials from a universal waste release are hazardous waste and are properly managed – 10 CSR 25-16.273(1) incorporating 40 CFR 273.17(b).	1
3.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Provides all employees who manage universal waste with information describing proper handling and emergency procedures appropriate for universal wastes handled at the facility – 10 CSR 25-16.273(1) incorporating 40 CFR 273.16.	2

O. OFF-SITE SHIPMENTS

COMMENTS

1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Non-pesticide universal wastes only sent to another universal waste handler, destination facility, Missouri resource recovery facility, or foreign destination – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(a) as modified by 10 CSR 25-16.273(2)(B).	1
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Complies with universal waste transporter requirements if self transporting universal waste - 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(b).	2
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Uses proper shipping documents, packages, labels, marks and provides placards per DOT requirements on universal waste that meets hazardous materials definition – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(c).	2
4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ensures receiving handler agrees to accept universal waste prior to shipment – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(d).	2

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O. OFF-SITE SHIPMENTS (CONTINUED)			COMMENTS
5. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Accepts rejected universal waste or agrees with receiving handler to ship to an alternate destination facility – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(e).	2	
6. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Contacts originating handler to discuss reshipment of the load back to originating handler or to a mutually agreed on destination facility if handler rejects a shipment or portion of a shipment – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(f).	2	
N Y NA 7. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Originating handler receives back or sends rejected pesticides to another Missouri-certified resource recovery facility or destination facility if universal waste pesticides are rejected – 10 CSR 25-16-273(2)(B)4.	2	
8. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Immediately notifies the department if receive a shipment of hazardous waste and provides required information – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(g).	2	
9. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Manages waste in compliance with applicable solid waste regulations if receives a shipment of non-hazardous, non-universal wastes – 10 CSR 25-16.273(1) incorporating 40 CFR 273.18(h).	2	
10. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Exported universal waste regulations met including notification, annual reporting, and record keeping – 10 CSR 25-16.273(1) incorporating 40 CFR 273.20 referencing 40 CFR 262 Subpart E or Subpart H.	2	
P. BATTERIES			COMMENTS
1. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Batteries stored in a manner to prevent releases to the environment (box, shrink wrapped pallet, container, etc) – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(a).	2	
2. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Damaged or leaking batteries kept in closed, structurally sound containers – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(a)(1).	1	
3. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Individual battery cells kept intact and closed while performing approved management of batteries (sorting, discharging, disassembling battery packs, etc) – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(a)(2).	2	
4. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Cells immediately closed after the removal of electrolyte – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(a)(2).	1	
5. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	If casings of individual battery cells are breached then manages batteries as hazardous waste if characteristic – 10 CSR 25-5.262(1) incorporating 40 CFR 262.11.	1	
6. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Determines if electrolyte removed from cells and other solid wastes generated exhibit hazardous waste characteristics and properly manages wastes – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(3).	1	
7. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Batteries or battery containers clearly labeled or marked as "Universal Waste-Battery(ies)" or "Waste Battery(ies)" or "Used Battery(ies)" – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(a).	2	
Q. PESTICIDES			COMMENTS
Only pesticides that have been recalled or are unused and gathered as a Missouri authorized waste pesticide collection program can be managed as universal wastes.			
N Y NA 1. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste pesticides stored in closed, structurally sound container that is compatible with the wastes and not leaking or damaged – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(b)(1).	1	
2. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste pesticides stored in closed, structurally sound transport vehicles/vessels that are compatible with the wastes and not leaking or damaged – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(b)(4).	1	
3. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste pesticide stored in tanks that conform with Part 265 Subpart J except for 40 CFR 265.197(c), 265.200, and 265.201 – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(b)(3).	1	

Q. PESTICIDES (CONTINUED)			COMMENTS
4. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Recalled universal waste pesticide container, tank, transport vehicle or vessel labeled or marked with the label that was on or accompanied the product as sold/distributed – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(b)(1).	2	
5. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> N Y NA	Unused universal waste pesticide container, tank, transport vehicle or vessel labeled or marked with the label that was on or accompanied the product as sold/distributed or the US DOT label as required by 49 CFR Part 172, or a label designated by the Missouri waste pesticide collection program – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(c)(1).	2	
6. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste pesticides container, tank, transport vehicle or vessel marked or labeled clearly with product label and the words "Universal Waste Pesticide(s)" or "Waste Pesticide(s)" – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(b)(2) and (c)(2).	2	
7. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste pesticides sent only to authorized destination facility or Missouri universal waste pesticide program – 10 CSR 25-16.273(2)(B).	1	
8. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste pesticides not sent to or received from another universal waste handler – 10 CSR 25-16.273(2)(B).	1	
R. MERCURY CONTAINING EQUIPMENT			COMMENTS
1. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Mercury containing equipment stored in a manner to prevent releases to the environment (box, container, etc.) – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c).	1	
2. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Damaged or leaking mercury containing equipment or mercury containing equipment with non-contained elemental mercury kept in a closed, structurally sound container – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(1).	1	
3. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Mercury ampules or open original housing holding mercury removed over or in a containment device – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(2)(ii).	1	
4. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Mercury clean-up system readily available – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(2)(iii).	2	
5. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Mercury from spills or leaks of broken ampules or open original housing holding mercury immediately transferred to container meeting 40 CFR 262.34 requirements – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(2)(iv).	1	
6. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Area where ampules or open original housing holding mercury are removed is well ventilated and monitored to ensure compliance with applicable OSHA exposure levels of mercury – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(2)(v) and 273.33(c)(2).	2	
7. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Employees removing ampules or open original housing holding mercury thoroughly familiar with proper mercury handling and emergency procedure – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(2)(vi).	2	
8. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Removed ampules or open original housing holding mercury stored in closed, non leaking containers that are in good condition and packaged with adequate packing material to prevent breakage during storage, handling, and transportation – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(2)(vii).	1	
9. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Open original housing holding mercury removed from mercury containing equipment immediately sealed with airtight seal – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(3)(i).	1	

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R. MERCURY CONTAINING EQUIPMENT (CONTINUED)			COMMENTS
10. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Determines if wastes generated from mercury ampules or housing removal activities exhibits hazardous waste characteristics. If hazardous waste then manages as hazardous waste per 40 CFR part 262 – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(c)(4).	1	
11. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste mercury equipment or containers marked or labeled clearly: "Universal Waste-Mercury Containing Equipment" or "Waste Mercury Containing Equipment" or "Used Mercury Containing Equipment" – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(d)(1).	2	
12. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Universal waste mercury containing thermostats or containers marked or labeled as "Universal Waste-Mercury Thermostat(s)" "Waste Mercury Thermostat(s)" or "Used Mercury Thermostat(s)" – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(d)(2).	2	
S. LAMPS			COMMENTS
1. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Broken or leaking lamps immediately cleanup and placed in closed, structurally sound, non-leaking containers and managed as hazardous waste – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(d)(2) and 10 CSR 25-5.262(1) incorporating 40 CFR 262.11.	1	
2. <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Bulb crusher or other type of treatment not performed on lamps – Section 260.390.1(1) RSMo.	1	
3. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Unbroken lamps stored in closed, non-leaking containers or packages that are structurally sound and adequate to prevent breakage – 10 CSR 25-16.273(1) incorporating 40 CFR 273.13(d)(1).	2	
4. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Each lamp or lamp container or package marked or labeled clearly as "Universal Waste Lamp(s)" or "Waste Lamp(s)" or "Used Lamps" – 10 CSR 25-16.273(1) incorporating 40 CFR 273.14(e).	2	

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1.	Spencer Dobbs	Safety Officer	Y/N
2.	NORA CANNON	DIR OF Imag	Y/N
3.	Dennis Manley	Director	Y/N
4.	DENISE LUCAS	Histology Coor	Y/N
5.	Joseph Davis	mgr	Y/N
6.	Donna Stokes	Pt. Safety-IE	Y/N
7.	Connie Wilkins	Lab Director	Y/N
8.	Fawn Watson	Admin. Asst. Safety	Y/N
9.	DENISE DUGAN	Pt Safety mgr	Y/N
10.	TRACEY REED	SPVCS Manager	Y/N
11.	Karen Adkins	inical lab 7010	Y/N
12.	Randy Wensch	Educator 8261	Y/N
13.	Randy Bechtel	Pharmacy Dir 7206	Y/N
14.	Sarah Boyd	R&D InCoor	Y/N
15.			Y/N
16.			Y/N
17.			Y/N
18.			Y/N
19.			Y/N
20.			Y/N

Name (PRINT LEGIBLY)	Job Title	Cost Center Number	Mercy Clinic Co-worker?
1. GERALD WANDERER	FACILITATOR	8102	Y/N
2. Kevin Fitzpatrick	EVS/GM	9800	Y/N
3. SCOTT WATSON	VP-HR		Y/N
4. Donna Stokes	100/PWA		Y/N
5. JOTH ZORN	CE DIR	8261	Y/N
6. Sarah Boyd	R&D InCoor		Y/N
7. Randy Bechtel	Dir Pharmacy	7206	Y/N
8. Randy Wensch	BMET III	8261	Y/N
9. Karen Adkins	Laboratory Educator	7010	Y/N
10. TRACEY REED	SPVCS Manager		Y/N
11. DENISE DUGAN	Pt Safety mgr	7884	Y/N
12. Fawn Watson	Admin Asst. Safety		Y/N
13. Connie Wilkins	Lab Director		Y/N
14. Donna Stokes	Pt. Safety-IE		Y/N
15. Joseph Davis	mgr	6065/6070	Y/N
16. DENISE LUCAS	Histo Coor	2128	Y/N
17. Dennis Manley	Director	7884	Y/N
18. NORA CANNON	DIR	7121	Y/N
19. MIKE WARDLAW	MGR	8681	Y/N
20.			Y/N

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CONFIDENTIALITY NOTICE

Facility Name <i>St. Johns Regional Medical Center</i>	
Facility Address <i>2727 McCall Blvd. Joplin, MO 64804</i> <i>MSJ 5/5/11</i>	
Inspector (print) <i>Michael J. Martin</i>	
U.S. EPA, Region VII, 901 N. 5th St., Kansas City, KS 66101	Date <i>05/05/2011</i>

The United States Environmental Protection Agency (EPA) is obligated, under the Freedom of Information Act, to release information collected during inspections to persons who submit requests for that information. The Freedom of Information Act does, however, have provisions that allow EPA to withhold certain confidential business information from public disclosure. To claim protection for information gathered during this inspection you must request that the information be held CONFIDENTIAL and substantiate your claim in writing by demonstrating that the information meets the requirements in 40 CFR 2, Subpart B. The following criteria in Subpart B must be met:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.
2. No statute specifically requires disclosure of the information.
3. Disclosure of the information would cause substantial harm to your company's competitive position.

Information that you claim confidential will be held as such pending a determination of applicability by EPA.

I have received this Notice and <u>DO NOT</u> want to make a claim of confidentiality at this time.	
Facility Representative Provided Notice (print) <i>Spencer Dobbs</i>	Signature/Date <i>[Signature]</i> <i>5/5/11</i>

I have received this Notice and <u>DO</u> want to make a claim of confidentiality.	
Facility Representative Provided Notice (print)	Signature/Date

Information for which confidential treatment is requested:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RECEIPT FOR DOCUMENTS AND SAMPLES

Facility Name	St. Johns Regional Medical Center
Facility Address	2727 McClelland Blvd. ^{mm 5/5/11} 648091 64804

Documents Collected? YES ☒ (list below) NO ☐

Samples Collected? YES ☐ (list below) NO ☒ Split Samples: YES ☐ NO ☐

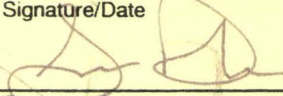
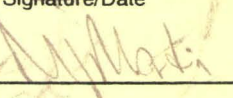
Documents/Samples were: 1) Received no charge ☒ 2) Borrowed ☐ 3) Purchased ☐

Amount Paid: \$ Method: Cash ☐ Voucher ☐ To Be Billed ☐

The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.

Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:

- 1) Methicillin-resistant *Staphylococcus aureus* (MRSA) Lab Procedure (9 pages)
- 2) 10% Formalin material safety data sheet (MSDS) (1 page)
- 3) Xpert MRSA MSDS (10 pages)
- 4) Barium Sulfate Powder MSDS (3 pages)
- 5) 2009-2011 Uniform Hazardous Waste Manifests (19 pages)
- 6) Spectra MRSA MSDS (4 pages)
- 7) Campus Map (2 pages)
- 8) Facility layout (1 page)
- 9) Lexite NF MSDS (4 pages)
- 10) 3M Chemical Integrator 1243 MSDS (8 pages)
- 11) 3M 1248 Gas Plasma Chemical Indicator Strip (7 pages) - MSDS
- 12) Steris Chemical Indicator Strip LCC008 MSDS (1 page)
- 13) 3M 1228 Indicator Tape MSDS (7 pages)
- 14) 3M Steam Indicator Tape (1222) MSDS (8 pages)
- 15) 3M Response letter to Indicator Tape lead content (3 pages)

Facility Representative (print)	Signature/Date
Spencer Dobbs	 5/5/11
Inspector (print)	Signature/Date
Michael J. Martin	 05/05/2011
U.S. EPA, Region VII, 901 N. 5th Street, Kansas City, KS 66101	

(rev:1/20/93)

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: St. Johns Regional Medical Center
Address: 2727 McClelland Blvd.
Joplin, Mo 64804 5/5/11 64804
EPA ID Number: MO0076262500 Date: 05/04-05/2011

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the the inspection.

Citation

Description of Violation

1) 10CSR 25-5.262(L) incorporating
40CFR 262.11

Hazardous waste determinations not conducted:
(A) Waste pharmaceuticals (partially used, etc.)
generated in the Pharmacy sent to EXP and/or
disposed with Biohazardous waste (red + yellow bags)
(B) Partially used/patient contacted drugs/chemicals
(pill, medication, inhalers, etc.) generated on patient
Floors or sent to the Pharmacy (both disposed with
biohazardous waste)
(C) Chemotherapy waste (cleanup debris, gloves,
tubing, vials/containers with excess, etc.)
(D) Used chemotherapy hood Filters
(E) Spent 3M 1222 Indicator tape (6 rolls per week)

You are requested to submit a written response within **14 calendar days** of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII
Environmental Services Division
901 North 5th Street
Kansas City, Kansas 66101
ATTN: Michael S. Martin

If you have any questions about this Notice or wish to discuss your response, you may call me at
(913) 551-7149, or Elizabeth Hoesterer (Compliance Officer) at
(913) 551-7673.

This Notice prepared by Michael S. Martin Date: 05/05/2011

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name: Spencer Dobbs Date: 5/5/11
Signature: [Signature]
Title: Safety Officer

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: _____
Address: _____
EPA ID Number: _____ Date: _____

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the inspection.

Citation

Description of Violation

	(F) Spent MRSA cartridges (3 to 4 per day)
	(G) Rags contaminated with lead solder (5 to 6 per year)
2) 10 CSR 25-5.262(2)3.B	Facility notification not current (zip code and site contact information)
3) 10 CSR 25-5.262(1) 40CFR 262.34(d)(4) referencing 40CFR 262.34(a)(2)	Hazardous waste storage container not marked with the date of accumulation (A) one full 1 gallon storage container of white xylene
4) 10 CSR 25-5.262(1) 40CFR 262.34(d)(4) referencing 40CFR 262.34(a)(2)	Hazardous waste storage container not marked "Hazardous Waste" (A) same container in Citation # 3.

You are requested to submit a written response within **14 calendar days** of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII

ATTN. _____

If you have any questions about this Notice or wish to discuss your response, you may call me at _____, or _____ (Compliance Officer) at _____.

This Notice prepared by

Michael J. Martin

Date:

05/05/2011

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name:

Spencer Debbs

Date:

5/5/11

Signature:

[Signature]

Title:

Safety Officer

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: _____
Address: _____
EPA ID Number: _____ Date: _____

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the the inspection.

Citation

Description of Violation

5) 10 CSR 25-5.262(2)(C) 2.C(1)+(4) → 40 CFR 265.174	Weekly hazardous waste inspections (storage containers) were not maintained from 09/20/2010 to present.
6) 10 CSR 25-5.262(2) 2.C(1)	Daily insp inspections (spills, handling, etc.) of the Hazardous Storage Area not conducted.
7) 10 CSR 25-16.273(1) → 40 CFR 273.15(6)	The length of time of Universal Waste accumulation not demonstrated. (A) Five boxes of spent fluorescent lamps (at least 178 spent lamps)

You are requested to submit a written response within **14 calendar days** of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII

ATTN. _____

If you have any questions about this Notice or wish to discuss your response, you may call me at _____, or _____ (Compliance Officer) at _____.

This Notice prepared by Michael S. Martin Date: 05/05/2011

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name: Spencer Dobbs Date: 5/5/11
Signature: [Signature]
Title: Safety Officer

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: _____
Address: _____
EPA ID Number: _____ Date: _____

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the the inspection.

Citation

Description of Violation

8) 10 CSR 25-16.273(1) & 40 CFR 273.16	Employees not trained regarding proper management of universal waste (lamps).
9) 10 CSR 25-16.273(1) & 40 CFR 273.13(a)(1)	Universal waste (lamps) not stored in a closed container. (A) Same containers listed in citation #7.
10) 10 CSR 25-16.273(1) & 40 CFR 273.14(c)	Universal waste (lamps) not labeled as "Universal Waste-Lamps," "Waste Lamps," or "Used Lamps."

You are requested to submit a written response within **14 calendar days** of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII

ATTN: _____

If you have any questions about this Notice or wish to discuss your response, you may call me at _____, or _____ (Compliance Officer) at _____.

This Notice prepared by Michael J. Martin Date: 05/05/2011

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name: Spencer Dobbs Date: 5/5/11
Signature: [Signature]
Title: Safety Officer

HANDLER INFORMATION REPORT

March 28, 2011

Procedures for Inspectors performing Site Visits

If the facility wants to make a change, they must complete a Notification of Regulated Waste Activity form # MO780-1164, and send it to the Department of Natural Resources, Waste Management Program, PO Box 176, Jefferson City, MO 65102. The form can be found at <http://www.dnr.mo.gov/forms/780-1164.pdf>

If during the course of the site visit, the inspector/investigator becomes aware of any changes which should be made to the information printed on this form, please make the corrections and return the form to: Beth Koesterer, AWM/WEMM.

EPA RCRA ID Number: MOD076262500

Name of Company/Site: ST JOHNS REGIONAL MEDICAL CTR

Location of Site: 2727 MCCLELLAND BLVD

JOPLIN, MO 64804

JASPER County

06 State District

Land Type: Other land type

NAICS: 62211 - GENERAL MEDICAL AND SURGICAL HOSPITALS

Mailing Address: 2727 MCCLELLAND BLVD

JOPLIN, MO 64804

Site Contact:

Job Title:

Address:

2727 MCCLELLAND BLVD

JOPLIN, MO 64804

Email:

Phone Number:

~~DCABRIEL@STJ.COM~~

(417) 625-2111/2007

Current Owner of Site:

Phone Number:

Owner Type:

~~CATHOLIC HEALTH INITIATIVES~~~~(303) 298-9100~~

Private

Current Owner of Site:

Owner Type:

SISTERS OF MERCY

Private

Current Operator of Site:

Phone Number:

Operator Type:

~~CATHOLIC HEALTH INITIATIVES~~~~(303) 298-9100~~

Private

TYPE(S) OF REGULATED ACTIVITY: Federal Small Quantity Generator

Hazardous Wastes Handled: D001 D008 F003

1st N 08/19/80 N 01/27/06 2

Certified by Notification

on 01/27/06 by

CARRIE WARD 01/27/06

ENVIRON SERVICES MGR

Date of Site Visit:

Name of Inspector (Please print):

(Check one): ☒ EPA R7 ENSV ☐ EPA R7 Contractor ☐ NOWCC/SEE Investigator

Signature of Inspector:

ATTACHMENT 9 Page 1 of 1



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD078262500	2. Page 1 of 1 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000458907 VES		
5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804		Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804					
Generator's Phone: 417 625-2114							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJD080631389					
7. Transporter 2 Company Name Triad transport		U.S. EPA ID Number 10KD981588791					
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS, HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640		U.S. EPA ID Number TXD000838896					
Facility's Phone: 409 736-2821							
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
	X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (XYLENE), 3, II	001	DF	00010	P	F003 D001 OUTS219H
	X	2. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (XYLENE), 3, II	012	DF	00240	P	F003 D001 OUTS219H
		3. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT, (FORMALIN 4-10%)	001	DF	00005	P	NONE OUTS2191
		4. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT, (FORMALIN 4-10%)	015	DF	00300	P	NONE OUTS2191
14. Special Handling Instructions and Additional Information 1) W:956826 A:PTAVES020 05DF 2) W:956826 A:PTAVES020 14DF 3) W:954351 A:PTAVES020 05DF 4) W:954351 A:PTAVES020 14DF -J- ER Service Contracted by VESTS							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. <i>Rec'd @ Veolia Twp 10 days on 3/3/11 Rk</i>							
Generator's/Officer's Printed/Typed Name DENISE LUCAS		Signature <i>Denise Lucas</i>			Month Day Year 03/02/11		
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Drent Diercks		Signature <i>Drent Diercks</i>		Month Day Year 03/21/11		
	Transporter 2 Printed/Typed Name Chris Wells		Signature <i>C Wells</i>		Month Day Year 03/18/11		
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <i>Hofo</i> 2. <i>Hofo</i> 3. <i>Hofo</i> 4. <i>Hofo</i>							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Tristal Dugas		Signature <i>Tristal Dugas</i>			Month Day Year 03/28/11		

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)



Form Approved. OMB No. 2050-0039

649760

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD076282500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000458801 VES
5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804			Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804		
Generator's Phone: 417 825-2114					
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJD080831369		
7. Transporter 2 Company Name Triad Transport			U.S. EPA ID Number 014D981588791		
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640			U.S. EPA ID Number TXD0000838806		
Facility's Phone: 409 736-2821					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt/Vol.
	1. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT., (FORMALIN 4-10%)	015	DF	00800	P
	2.				
	3.				
	4.				
13. Waste Codes NONE OUTS2191					
14. Special Handling Instructions and Additional Information 1) W:854351 A:PTAVES020 15DF -I- ER Service Contracted by VESTS					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offeree's Printed/Typed Name Pam Messbarger			Signature Pam Messbarger		Month Day Year 12/20/10
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name CRAIG ARTEBERRY			Signature Craig Artberry		Month Day Year 12/20/10
Transporter 2 Printed/Typed Name Michael E. Carter			Signature Michael E. Carter		Month Day Year 1/3/11
18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
Manifest Reference Number:					
18b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
18c. Signature of Alternate Facility (or Generator) Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name Trusted Degees			Signature Trusted Degees		Month Day Year 1/13/11

EPA Form 8700-22 (Rev. 9-05) Previous editions are obsolete

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

107-122710

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number	22. Page	23. Manifest Tracking Number				
		MOD076262800		000458801UES				
24. Generator's Name St. Johns								
25. Transporter <u>3</u> Company Name		Veolia ES		U.S. EPA ID Number INSD080631369				
26. Transporter _____ Company Name		U.S. EPA ID Number						
27a. HM	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					
	Trans only							
32. Special Handling Instructions and Additional Information								
TRANSPORTER	33. Transporter <u>3</u> Acknowledgment of Receipt of Materials							
	Printed/Typed Name	Signature	Month	Day	Year			
	Crystal Dugas	Crystal Dugas	11	16	11			
DESIGNATED FACILITY	34. Transporter _____ Acknowledgment of Receipt of Materials							
	Printed/Typed Name	Signature	Month	Day	Year			
35. Discrepancy								
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)



Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD 076262500		2. Page 1 of 1		3. Emergency Response Phone (877) 818-0087		4. Manifest Tracking Number 000387041 VES		
		5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804		6. Manifest Tracking Number (if different than mailing address) 000387041 VES						
Generator's Phone: 417 625-2114										
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9								
7. Transporter 2 Company Name Triad transport		U.S. EPA ID Number OKD981588791								
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS, HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640		U.S. EPA ID Number T X D 0 0 0 8 3 8 8 9 6								
Facility's Phone: 408 736-2821										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (XYLENE), 3, II				0 1 2 D F		0 0 3 4 0	P	F003 D001 OUTS219H
	X	2. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (XYLENE), 3, II				0 0 3 D F		0 0 0 9 0	P	F003 D001 OUTS219H
		3. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT., (FORMALIN 4-10%)				0 1 6 D F		0 0 4 8 0	P	NONE OUTS2191
		4.								
14. Special Handling Instructions and Additional Information 1) W:856828 A:PTAVES020 14DF 2) W:856828 A:PTAVES020 30DF 3) W:854351 A:PTAVES020 14DF -J- ER Service Contracted by VESTS										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Officer's Printed/Typed Name DENISE LUCAS Signature <i>Denise Lucas</i> Month Day Year 1 0 0 7 1 0										
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials									
TRANSPORTER	Transporter 1 Printed/Typed Name Brent Diercks Signature <i>Brent Diercks</i> Month Day Year 10 7 10									
	Transporter 2 Printed/Typed Name Pete Caldwell Signature <i>Pete Caldwell</i> Month Day Year 10 22 10									
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number: _____									
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____									
	Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) Month Day Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H040 2. H040 3. H040 4. _____										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a										
Printed/Typed Name Crystal Dugas Signature <i>Crystal Dugas</i> Month Day Year 11 14 10										

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number	22. Page	23. Manifest Tracking Number	
		MUD076262500		000387041ES	
24. Generator's Name St. Johns.					
25. Transporter <u>3</u> Company Name		Veolia ES		U.S. EPA ID Number IN3D080631369	
26. Transporter _____ Company Name				U.S. EPA ID Number	
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No. Type		29. Total Quantity	30. Unit WL/Vol.
<div style="transform: rotate(-45deg); transform-origin: center;">Trans. only</div>					
32. Special Handling Instructions and Additional Information					
33. Transporter <u>3</u> Acknowledgment of Receipt of Materials					
Printed/Typed Name		Signature		Month	Day Year
Crystal Dugan		Crystal Dugan		11	10 28 10
34. Transporter <u>3</u> Acknowledgment of Receipt of Materials					
Printed/Typed Name		Signature		Month	Day Year
35. Discrepancy					
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD070202500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000387042 VES	
5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804				Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804		
Generator's Phone: 417 825-2114						
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number N J D 0 8 0 6 3 1 3 6 9		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 7 MOBILE AVENUE 618 274-2804 SAUGET, IL 62201-1089				U.S. EPA ID Number I L D 0 8 8 6 4 2 4 2 4		
Facility's Phone:						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	X1	UN1470, WASTE OXIDIZING SOLID, n.o.s., (SODIUM IODATE), 5.1, I	001	DF	00005	P
	X2	UN2823, CORROSIVE SOLIDS, TOXIC, n.o.s., (OXALIC ACID), 8 (B.I), III	001	DF	00005	P
	X3	UN3280, CORROSIVE SOLID, ACIDIC, INORGANIC, n.o.s., (BORIC ACID, ALUMINUM SULFATE (SOLID)), 8, III	001	DF	00005	P
	4.					
14. Special Handling Instructions and Additional Information Service Contracted by VESTS						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name DENISE LUCAS				Signature <i>Denise Lucas</i>		Month Day Year 10 07 10
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
	Transporter signature (for exports only):					
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1: Printed/Typed Name Brent Dercks				Signature <i>Brent Dercks</i>	
TRANSPORTER	Transporter 2: Printed/Typed Name				Signature	
TRANSPORTER	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
TRANSPORTER	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
	Facility's Phone:					
TRANSPORTER	18c. Signature of Alternate Facility (or Generator)					
TRANSPORTER	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
	1. H040	2. H040	3. H040	4.		
TRANSPORTER	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
	Printed/Typed Name JOHN STAMORE				Signature <i>John Stamore</i>	
TRANSPORTER					Month Day Year 10 08 10	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)



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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD076262500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000460721 VES	
		5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804				
Generator's Phone: 417 825-2114		Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804				
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJD080631369				
7. Transporter 2 Company Name Triad transport		U.S. EPA ID Number 10K098158871				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640		U.S. EPA ID Number TXD0000828806				
Facility's Phone: 409 736-2821						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	X	¹ UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (XYLENE), 3, II	008	DF	00235	P
	X	² NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (MITOMYCIN C, CISPLATIN), 9, III	004	DF	00200	P
		³ NON-REGULATED MATERIAL, NON-RCRA, NON-DOT., (FORMALIN 4-10%)	007	DF	00210	P
		⁴ NON-REGULATED MATERIAL, NON-RCRA, NON-DOT., (FORMALIN 4-10%)	002	DF	00070	P
13. Waste Codes						
F003						
D001 OUTS218H						
U010						
OUTS4091						
NONE						
OUTS2181						
NONE						
OUTS2181						
14. Special Handling Instructions and Additional Information 1) W:956826 A:PTAVES020 14DF 2) W:129248 A:PTAVES100 30DF 3) W:954351 A:PTAVES020 14DF 4) W:954351 A:PTAVES020 30DF - ER Service Contracted by VESTS						
Rec'd @ Veolia TW 10 day on 4/25/10 EK						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Kevin Fitzpatrick		Signature 		Month Day Year 06 24 10		
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Materials					
TRANSPORTER	Transporter 1 Printed/Typed Name CRAIG ARTEBERRY		Signature 		Month Day Year 06 24 10	
	Transporter 2 Printed/Typed Name James Walker		Signature 		Month Day Year 07 19 10	
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Manifest Reference Number: _____					
	18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____					
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040 2. H040 3. H040 4. H040						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Crystal Dugan		Signature 		Month Day Year 12 30 10		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MDDD76262500		22. Page	23. Manifest Tracking Number DD0460721VES	
		24. Generator's Name St. Johns				
25. Transporter Company Name Verolia ES		U.S. EPA ID Number MD080631369				
26. Transporter Company Name		U.S. EPA ID Number				
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
	Hazardous only					
32. Special Handling Instructions and Additional Information						
33. Transporter Acknowledgment of Receipt of Materials						
Printed/Typed Name Vanessa Horstad		Signature V. Horstad			Month Day Year 7/22/10	
34. Transporter Acknowledgment of Receipt of Materials						
Printed/Typed Name		Signature			Month Day Year	
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD078282500		2. Page 1 of 1		3. Emergency Response Phone (877) 818-0087		4. Manifest Tracking Number 000460722 VES							
		5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804						Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804							
GENERATOR		6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS						U.S. EPA ID Number NJD080631369							
		7. Transporter 2 Company Name						U.S. EPA ID Number							
TRANSPORTER		8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9451 BOUNDARY RD. 252 255-8855 MENOMONEE FALLS, WI 53051						U.S. EPA ID Number WI0003067148							
		Facility's Phone:													
SIGNATURE FACILITY		9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))						10. Containers		11. Total Quantity		12. Unit WL/No.		13. Waste Codes	
								No. Type							
		1. UN2821 WASTE PHENOL SOLUTIONS R1 II						001 DF		00010		P		U188	
		2.													
		3.													
INTL		14. Special Handling Instructions and Additional Information 1) W43810 A: CWDDPK0 05DF -I- ER Service Contracted by VESTS													
TRANSPORTER		15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
		Generator's/Offoror's Printed/Typed Name Kevin Fitzpatrick						Signature <i>[Signature]</i>		Month Day Year 08 24 10					
TRANSPORTER		16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____													
		Transporter signature (for exports only): _____													
TRANSPORTER		17. Transporter Acknowledgment of Receipt of Materials													
		Transporter 1 Printed/Typed Name CRAIG ARTEBERRY						Signature <i>[Signature]</i>		Month Day Year 08 24 10					
TRANSPORTER		Transporter 2 Printed/Typed Name						Signature <i>[Signature]</i>		Month Day Year					
SIGNATURE FACILITY		18. Discrepancy													
		18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection													
SIGNATURE FACILITY		18b. Alternate Facility (or Generator)						U.S. EPA ID Number							
		Facility's Phone:													
SIGNATURE FACILITY		18c. Signature of Alternate Facility (or Generator)						Month Day Year							
SIGNATURE FACILITY		19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
		H141													
SIGNATURE FACILITY		20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a													
		Printed/Typed Name BEN FLECKENSTEIN						Signature <i>[Signature]</i>		Month Day Year 10 06 30 10					

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD076262500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000342734 VES
5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804			Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804		
Generator's Phone: 417 825-2114					
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJD080831300		
7. Transporter 2 Company Name Triad transport			U.S. EPA ID Number 10KD981588791		
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640			U.S. EPA ID Number TXD0000838800		
Facility's Phone: 409 736-2821					

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
		No.	Type				
X	NA3092, HAZARDOUS WASTE, LIQUID, n.o.s., (MITOMYCIN C, CISPLATIN), 9, III					U010	OUTS4004
X	2. NA3092, HAZARDOUS WASTE, LIQUID, n.o.s., (MITOMYCIN C, CISPLATIN), 9, III	009	DF	0450	P	U010	OUTS4091

14. Special Handling Instructions and Additional Information
Contracted by VESTS **1) W:120240 A:PTAVES100 40DF 1- ER Service** **2) W:120248 A:PTAVES100 30DF 1- ER Service**

Recd @ Veolia TWI 10/14/10

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
(I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.)

Generator's/Officer's Printed/Typed Name: **Kevin Fitzpatrick** Signature: *[Signature]* Month: **0** Day: **5** Year: **10**

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. ☐ Port of entry/exit: _____
Transporter signature (for exports only): _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Craig Arteberry	Signature <i>[Signature]</i>	Month Day Year 5 13 10
Transporter 2 Printed/Typed Name LARRY RISEN	Signature <i>[Signature]</i>	Month Day Year 5 25 10

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) _____ Manifest Reference Number: _____ U.S. EPA ID Number: _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

2. 10KD	3. 10KD	4. 10KD	
----------------	----------------	----------------	--

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: **Trusted Dugas** Signature: *[Signature]* Month Day Year: **10 10 10**

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD078282500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000388171 VES	
5. Generator's Name and Mailing Address ST. JOHNS REGIONAL MEDICAL CTR 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804		Generator's Site Address (if different than mailing address) ST. JOHNS REGIONAL MEDICAL CTR (ATTN: KEVIN FITZPATRICK) 2727 MCCLELLAND BOULEVARD JOPLIN, MO 64804				
Generator's Phone: 417 825-2114						
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJD080631369				
7. Transporter 2 Company Name Truck transport		U.S. EPA ID Number OKD981588791				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640		U.S. EPA ID Number TXD000838806				
Facility's Phone: 409 736-2821						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (XYLENE), 3, II	007	DF	00175	P	F003 D001 OUTS219H
X	2. NA2993, HAZARDOUS WASTE, LIQUID, n.o.s., (ANTHRAQUINONE, DISPLANTIN), 0, III	000	DF	00100	F	U010 OUTS1004
	3. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT, (FORMALIN 4-10%)	008	DF	00195	P	NONE OUTS2191
	4.					
14. Special Handling Instructions and Additional Information 1) W:956826 A:PTAVES020 14DF 2) W:128240 A:PTAVES100 00DF 3) W:954351 A:PTAVES020 14DF -J- ER Service Contracted by VESTS						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Kevin Fitzpatrick		Signature <i>[Signature]</i>		Month Day Year 05 08 10		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name CRAIG ARTEBERRY		Signature <i>[Signature]</i>		Month Day Year 05 08 10		
Transporter 2 Printed/Typed Name Quinn Johnson		Signature <i>[Signature]</i>		Month Day Year 05 21 10		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040		2. H040		3. H040		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name KAT ADKINS		Signature <i>[Signature]</i>		Month Day Year 06 04 10		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number MOE076262500	22. Page	23. Manifest Tracking Number 000388171VES				
24. Generator's Name ST Johns								
25. Transporter Company Name Velia ES			U.S. EPA ID Number IN30080631329					
26. Transporter Company Name			U.S. EPA ID Number					
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					
Trans Only								
32. Special Handling Instructions and Additional Information								
TRANSPORTER	33. Transporter Acknowledgment of Receipt of Materials							
	Printed/Typed Name Crystal Duges		Signature Crystal Duges		Month Day Year 10/5/12			
DESIGNATED FACILITY	34. Transporter Acknowledgment of Receipt of Materials							
	Printed/Typed Name		Signature		Month Day Year			
35. Discrepancy								
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)



Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD076282500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000460853 VES	
5. Generator's Name and Mailing Address ST. JOHN'S REGIONAL - LAB ATTN: 2727 MCCLELLAND BLVD JOPLIN, MO 64804		Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 417 625-2114						
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJ0080631389				
7. Transporter 2 Company Name TRIAD TRANSPORTATION		U.S. EPA ID Number OKD981588791				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640		U.S. EPA ID Number TX0000838898				
Facility's Phone: 409 738-2821						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	X	1. UN2924, WASTE FLAMMABLE LIQUIDS, CORROSIVE, n.o.s., (FORMALIN, XYLENE), 3 (8), II	13	DF	65	P
	X	2. NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (FORMALIN 4-10%), 8, III	15	DF	75	P
		3.				
		4.				
13. Waste Codes F003 D001 OUTS219H U122 OUTS2191						
14. Special Handling Instructions and Additional Information - ER Service Contracted by VESTS 1) ERG:132 W:805199 A:PTAVES100 14DF 2) ERG:171 W:963400 A:PTAVES100 14DF						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Kevin Fitzpatrick		Signature 		Month Day Year 03 16 10		
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:			
	Transporter signature (for exports only):					
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name MITCH BURGER		Signature 		Month Day Year 03 16 10	
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name Anthony Payne		Signature 		Month Day Year 4 5 10	
	18. Discrepancy					
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator)					Manifest Reference Number: U.S. EPA ID Number	
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040		2. H040		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Vanessa Hofstad		Signature 		Month Day Year 4 16 10		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number	22. Page	23. Manifest Tracking Number			
		MOD076262500		000466853UES			
24. Generator's Name St. Johns.							
25. Transporter 3 Company Name		Veolia-ES		U.S. EPA ID Number 1630080631369			
26. Transporter _____ Company Name				U.S. EPA ID Number			
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
		No.	Type				
TRANS ONLY							
32. Special Handling Instructions and Additional Information							
33. Transporter 3 Acknowledgment of Receipt of Materials	Printed/Typed Name		Signature		Month	Day	Year
	Instal Dug-es		[Signature]		14	8	10
34. Transporter _____ Acknowledgment of Receipt of Materials	Printed/Typed Name		Signature		Month	Day	Year
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							



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Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD078262500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0067	4. Manifest Tracking Number 000325935 VES			
5. Generator's Name and Mailing Address ST. JOHN'S REGIONAL - LAB ATTN: 2727 MCCLELLAND BLVD JOPLIN, MO 64804		Generator's Site Address (if different than mailing address) SAME						
Generator's Phone: 417 825-2112								
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJ0080631369						
7. Transporter 2 Company Name Triad transportation		U.S. EPA ID Number 10K0981588791						
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77840		U.S. EPA ID Number TX0000838806						
Facility's Phone: 409 738-2821								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1UN2924, WASTE FLAMMABLE LIQUIDS, CORROSIVE, n.o.s., (FORMALIN, XYLENE), 3 (8), II	010	DF	00250	P	F003	
	X	2NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (FORMALIN 4-10%), 9, III	001	DF	00010	P	U122	OUTS219H
	X	3NA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (FORMALIN 4-10%), 9, III	014	DF	00350	P	U122	OUTS219H
	4.							
14. Special Handling Instructions and Additional Information 1) W:805199 A:PTAVES100 14DF 2) W:983400 A:PTAVES100 05DF 3) W:983400 A:PTAVES100 14DF -J- ER Service Contracted by VESTS								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name GARY CONNER		Signature Gary Conner		Month Day Year 11 18 09				
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
	17. Transporter Acknowledgment of Receipt of Materials							
TRANSPORTER	Transporter 1 Printed/Typed Name Kelli Zike		Signature Kelli Zike		Month Day Year 11 18 09			
	Transporter 2 Printed/Typed Name MIKE BART		Signature Mike Bart		Month Day Year 12 4 09			
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Manifest Reference Number:							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H040		2. H040		3. H040		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a:								
Printed/Typed Name Vanessa Hopstad		Signature V Hopstad		Month Day Year 12 17 09				

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

074 9-03



628784

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD076262500	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 000325923 VES		
5. Generator's Name and Mailing Address ST. JOHN'S REGIONAL - LAB ATTN: 2727 MCCLELLAND BLVD JOPLIN, MO 64804			Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 417 825-2112							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJD080631360				
7. Transporter 2 Company Name Veolia E.S. Industrial Services			U.S. EPA ID Number TXR000077970				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS HIGHWAY 73 3.5 MILES W. OF TAYLOR'S BAYOU PORT ARTHUR, TX 77640			U.S. EPA ID Number TXD000838806				
Facility's Phone: 409 736-2821							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	UN2924, WASTE FLAMMABLE LIQUIDS, CORROSIVE, n.o.s., (FORMALIN, XYLENE), 3 (8), II	001	DF	00015	P	F003 OUTS219H
	X	HA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (FORMALIN 4-10%), 9, III	007	DF	00140	P	U122 OUTS219I
	X	HA3082, HAZARDOUS WASTE, LIQUID, n.o.s., (FORMALIN 4-10%), 9, III	007	DF	00210	P	U122 OUTS219I
14. Special Handling Instructions and Additional Information 1) W:805199 A:PTAVES020 05DF 2) W:963400 A:PTAVES100 05DF 3) W:963400 A:PTAVES100 14DF - ER Service Contracted by VESTS							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Operator's Printed/Typed Name Karen Weibel Signature <i>Karen Weibel</i> Month 08 Day 25 Year 09							
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name David Schach		Signature <i>David Schach</i>		Month 08 Day 25 Year 09		
	Transporter 2 Printed/Typed Name MICHAEL P. MEWSKEY		Signature <i>Michael P. Mewskey</i>		Month 09 Day 11 Year 09		
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H040		2. H040		3. H040		4. _____
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name Dwight Dugas		Signature <i>Dwight Dugas</i>		Month 09 Day 15 Year 09		

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number MOD076282500	2. Page 1 of 1	3. Emergency Response Phone 877 818-0087	4. Manifest Tracking Number 000325922 VES		
5. Generator's Name and Mailing Address ST. JOHN'S REGIONAL - LAB ATTN: 3727 MCCLELLAND BLVD JOPOLIN, MO 64804			Generator's Site Address (if different than mailing address) SAME				
Generator's Phone: 417 825-2112							
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS			U.S. EPA ID Number NJD080831360				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N6451 BOUNDARY RD.			U.S. EPA ID Number				
Facility's Phone: 262 255-8855 MENOMONEE FALLS, WI 53051			WID0003967148				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
	X	UN1307, WASTE XYLENES, 3, III, RQ (0001)	001	DM	00150	P	F003 D001
14. Special Handling Instructions and Additional Information 1) W:947119 A: CWDDPK3 55DM -/- ER Service Contracted by VESTS							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Karen W. L...		Signature <i>[Signature]</i>		Month Day Year 08 25 09			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name David Schaefer		Signature <i>[Signature]</i>		Month Day Year 08 25 09			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H141		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name ROBERT L. KANN JR.		Signature <i>[Signature]</i>		Month Day Year 09 09 09			

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number HCC07023000		2. Page 1 of 1		3. Emergency Response Phone 377-818-0087		4. Manifest Tracking Number 000325924 VES		
		5. Generator's Name and Mailing Address ST. LOUIS REGIONAL LAB ATTN: TEST MOBILE UNIT BLDG JOPLIN, MO 64504						Generator's Site Address (if different than mailing address) SAME		
Generator's Phone: 317 825-2112		6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS				U.S. EPA ID Number NJ000000001000				
7. Transporter 2 Company Name						U.S. EPA ID Number				
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS 7 MOBILE AVENUE						U.S. EPA ID Number				
Facility's Phone: 815 271-2804 SAUGET, IL 62201-1089						1100000042424				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
	X	UN2590, WASTE TRICHLOROACETIC ACID, SOLUTION, 2.				No.	Type			
						001	DF	00005	F	0002
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information HVED47110A-TW09-7110 050F - ER Service Contracted by VESTE										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offoror's Printed/Typed Name Karen Weber					Signature <i>[Signature]</i>			Month Day Year 08 25 05		
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name David Schaefer					Signature <i>[Signature]</i>			Month Day Year 08 25 05	
	Transporter 2 Printed/Typed Name					Signature			Month Day Year	
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number:									
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
	Facility's Phone:									
	18c. Signature of Alternate Facility (or Generator)					Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
	1. H010		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name P. H. T. H.					Signature <i>[Signature]</i>			Month Day Year 08 25 05		

MSDS#
R01821

remel
Material Safety Data Sheet
10/PK SPECTRA MRSA

Revision Date
2008-03-14

MSDS Name:

10/PK SPECTRA MRSA

Catalog Numbers:

R01821

Company Identification:

Remel Inc.

12076 Santa Fe Trail Drive
Lenexa, KS 66215

Company Phone Number:

913-888-0939

InfoTrac Emergency Number:

(800)535-5053

InfoTrac Emergency Number, international:

1-352-323-3500

Section 2 - Composition, information on

CAS#	Chemical Name:	Percent	
Not available	10/PK SPECTRA MRSA	100	Not available

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! May cause eye, skin, and respiratory tract irritation. This is expected to be a low hazard for usual industrial handling. No target organ information has been found.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause irritation of the digestive tract.

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10/PK SPECTRA MRSA

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Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found

Section 4 - First Aid Measures

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature:

Not available

Explosion Limits:

Lower: Not available Upper: Not available

Flash Point:

Not available

NFPA Rating:

(estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Protective Measures

General Information:

Use proper personal protective equipment as indicated in Section 8

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10/PK SPECTRA MRSA

Spills/Leaks:

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Provide ventilation.

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances.

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name:

10/PK SPECTRAMRSA

ACGIH

None listed

NIOSH

None listed

OSHA

None listed

OSHA Vacated PELs

None listed

Personal Protective Equipment

Eyes:

Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9: Physical and Chemical Properties

Physical State: No information found

Color: No information found

Odor: No information found

pH: No information found

Vapor Pressure: No information found

Vapor Density: No information found

Evaporation Rate: No information found

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10/PK SPECTRA MRSA

Viscosity: No information found

Boiling Point: No information found

Freezing/Melting Point: No information found

Decomposition Temperature: No information found

Solubility In water: No information found

Specific Gravity/Density: No information found

Molecular Formula: Mixture

Molecular Weight: No information found

Chemical Stability:

Stable under normal temperatures and pressures

Conditions to Avoid:

Excess heat

Incompatibilities with Other Materials

Strong oxidizing agents

Hazardous Decomposition Products

None

Hazardous Polymerization

Will not occur

Section 10: Ecotoxicology Information

RTECS:

No information found

LD50/LC50:

No information found

Carcinogenicity:

No information found

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

Neurotoxicity:

No information found

Other:

No information found

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2008-03-14

No information found

13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes

None of the components are on this list.

RCRA U Series Wastes

None of the components are on this list.

US DOT

Proper Shipping Name:
Hazard Class:
UN Number:
Packing Group:

Not Regulated

Canadian TDG

Not Regulated

Section 15 - Regulatory Information

US Federal

TSCA

This product is not listed on the TSCA Inventory. Individual components, however, may appear on the inventory. The use of this product is restricted to research and development or FDA regulated activities.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

None of the components are on this list.

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SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

SARA Hazard Categories

Not available

SARA Section 313

None of the components are on this list.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depleters

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depleters

None of the components are on this list.

Clean Water Act - Hazardous Substances

None of the components are on this list.

Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

OSHA - Specifically Regulated Chemicals

None of the components are on this list.

US State

State Right to Know

No information found

California Prop 65

None of the components are on this list.

California No Significant Risk Level

None of the components are on this list.

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols: None listed

Risk Phrases: None listed

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

No information found

United Kingdom Occupational Exposure Limits

No information found

United Kingdom Maximum Exposure Limits

No information found

Canadian DSUNDSL

None of the chemicals in this product are listed on the DSUNDSL list.

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Canadian WHMIS Classifications

No information found

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

No information found

This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS otherwise in connection with the supply of this product from us, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you must in all instances follow the guidance of the MSDS provided or available with the specific product purchased.

✓ Micro



Material Safety Data Sheet

Effective Date: February 2nd, 2010

Supersedes: October 19th, 2009

Xpert MRSA

1. Identification of the Material and Company/Undertaking

Product name:	Xpert MRSA	Catalog #:	GXM RSA-100N-10
Common name:	Not applicable		GXM RSA-120
Compound name:	Not applicable		

Manufacturer:
Cepheid
904 Caribbean Drive
Sunnyvale, CA 94089
USA

Telephone Numbers:
(888) 838-3222 (6 AM – 5 PM Pacific time US)
Outside of the US: 1 (408) 541-4191
24-Hour Emergency Telephone:
CHEMTREC (800) 424-9300
Outside of the US: 1 (703) 741-5500
E-mail: techsupport@cepheid.com

The following MSDS is for the final finished product only as used in the laboratory that contains six (6) components, some of which are in cartridges. If manufacturing this product, consult the MSDSs for the individual ingredients and reagents.

2. Hazards Identification

Appearance: Reagents Off Board Products (Reagents 1 & 2 in ampoules):
This product contains 6 parts – 3 of the parts (beads, which are freeze-dried white powders) are contained in cartridges. The other three components are reagents that are liquids that are clear, colorless liquids.

Reagents On Board Products:
This product contains 6 parts – 5 of the parts (3 beads, which are freeze-dried white powders, and 2 clear, colorless liquid reagents) are contained in cartridges. The other component is a reagent that is a clear, colorless liquid that that is contained in a vial.

Signal Word: **DANGER** for handling of:
Reagent 1 containing Sodium Hydroxide

CAUTION for handling of all other kit components

Hazard Overview: Reagents Off Board Products (Reagents 1 & 2 in ampoules):
Reagent 1 contains Sodium Hydroxide solution, which is a **CORROSIVE LIQUID**. Causes burns to skin and eyes if directly



Material Safety Data Sheet
Effective Date: February 2nd, 2010
Supercedes: October 19th, 2009

Xpert MRSA

contacted. Causes irritation to mucous membranes and respiratory tract if inhaled.

Bead components (Bead 1; Bead 2; Bead 3) are contained in cartridges and will not present a hazard under normal use conditions; if cartridge is broken or damaged and beads are spilled or released, contact may cause reversible skin and eye irritation.

Elution Reagent contains guanidine thiocyanate which is considered toxic to the aquatic environment.

Reagent 2 is not considered hazardous under US hazard communication regulations (29 CFR 1910.1200), EU directives for classification and labeling of substances or mixtures or the Global Harmonization System for classification and labeling of substances or mixtures.

Reagents On Board Products:

Reagent 1 contains Sodium Hydroxide solution, which is a **CORROSIVE LIQUID**. Causes burns to skin and eyes if directly contacted. Causes irritation to mucous membranes and respiratory tract if inhaled. Reagent 1 is contained in the cartridge.

Bead components (Bead 1; Bead 2; Bead 3) are contained in cartridges and will not present a hazard under normal use conditions; if cartridge is broken or damaged and beads are spilled or released, contact may cause reversible skin and eye irritation.

Elution Reagent contains guanidine thiocyanate which is considered toxic to the aquatic environment.

Reagent 2 is not considered hazardous under US hazard communication regulations (29 CFR 1910.1200), EU directives for classification and labeling of substances or mixtures or the Global Harmonization System for classification and labeling of substances or mixtures. Reagent 2 is contained in the cartridge.

Statement of Known

Hazard:

Reagent 1 is a **CORROSIVE LIQUID**. Avoid skin contact, eye contact and inhalation. Wear eye protection and skin protection to avoid contact.



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Xpert MRSA

Elution Reagent is a hazard to the aquatic environment. Dispose of according to local, state and federal regulations.

Other components of this product would not be considered hazardous under normal conditions of use.

EU Indicator of Danger: Reagent 1 – C (Corrosive)

Elution Reagent – Xn; N (Harmful; Dangerous to the environment)

All other components of this product: Not applicable

EU Risk Phrases:

Reagent 1 – R34 Causes Burns.

**Elution Reagent – R 32 Contact with acids liberates very toxic gas
R 52/53 Harmful to the aquatic environment; may cause long-term effects to the aquatic environment**

All other components of this product: Not applicable

3. Composition Information on Ingredients

This product consists of a cartridge with three reagent beads to which aqueous reagents are added as part of an assay.

Bead 1 is a freeze-dried powder bead as contained in the cartridge with the following hazardous ingredients:

Ingredient	CAS#	EINECs / ELINCS #	% Composition	EU Risk Phrase
HEPES Acid and Salt	7365-45-9 (For Acid)	230-907-9 (For Acid)	<10	R36/37/38
Magnesium Chloride	7786-30-3	232-094-6	<5	R36/37/38
Tween 20	9005-64-5	200-315-5	<5	R36/37/38
Bovine Serum Albumin	9048-46-8	232-936-2	<3	R42

All other ingredients of **Bead 1** are either non-hazardous under US and EU regulations or GHS guidelines and/or at concentrations less than 1% in the mixture.

Bead 2 is a freeze-dried powder bead as contained in the cartridge with the following hazardous ingredients:



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Ingredient	CAS#	EINECs / ELINCS #	% Composition	EU Risk Phrase
HEPES Acid and Salt	7365-45-9 (For Acid)	230-907-9 (For Acid)	<20	R36/37/38
Tween 20	9005-64-5	200-315-5	<5	R36/37/38

All other ingredients of **Bead 2** are either non-hazardous under US and EU regulations or GHS guidelines and/or at concentrations less than 1% in the mixture.

Bead 3 is a freeze-dried powder bead as contained in the cartridge with the following hazardous ingredients:

Ingredient	CAS#	EINECs / ELINCS #	% Composition	EU Risk Phrase
HEPES Acid and Salt	7365-45-9 (For Acid)	230-907-9 (For Acid)	<10	R36/37/38

All other ingredients of **Bead 3** are either non-hazardous under US and EU regulations or GHS guidelines and/or at concentrations less than 1% in the mixture.

Reagent 1 contains the following:

Ingredient	CAS#	EINECs / ELINCS #	% Composition	EU Risk Phrase
Sodium Hydroxide	1310-73-2	215-185-5	4%	R34 (for 4% solution)

Reagent 2 contains ingredients that are either considered non-hazardous under US and EU regulations or GHS guidelines and/ or at concentrations less than 1% in the mixture.

Elution Reagent contains the following ingredients

Ingredient	CAS#	EINECs / ELINCS #	% Composition	EU Risk Phrase
Guanidine thiocyanate	593-84-0	209-812-1	20-30	R20/21/22/32/52/53

All other ingredients in **Elution Reagent** are either non-hazardous under US and EU regulations or guidelines and/or at concentrations less than 1% in the mixture.



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4. First Aid Measures

For Reagent 1:

- Eye:** Flush thoroughly with water and notify supervisor and EHS personnel. Get medical aid.
- Skin:** Flush thoroughly with water and notify supervisor and EHS personnel. Get medical attention.
- Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- Inhalation:** Remove to fresh air and get medical attention for any breathing difficulty.

For all other parts of the kit if contacted:

- Eye:** Flush thoroughly with water and notify supervisor and EHS personnel. If an irritation develops, get medical aid.
- Skin:** Flush thoroughly with water and notify supervisor and EHS personnel. If an irritation develops, get medical attention.
- Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- Inhalation:** Remove to fresh air and get medical attention for any breathing difficulty.

5. Fire Fighting Measures

- Flammability/Explosivity:** None of the components of the kit are considered flammable or explosive.
- Extinguishing Media:** CO₂, multipurpose dry chemical or vaporizing liquid fire extinguisher.

Special Fire Fighting Procedures:

Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode for surrounding fire. Decontaminate all equipment after use.

Hazardous Decomposition Products:

Elution Reagent may emit small quantities of cyanide in a fire.



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6. Accidental Release Measures

For all components if spilled:

If product/material is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment. For small spills, wear gloves and absorb spill with paper towel. For small spills of Reagent 1 containing sodium hydroxide, avoid skin and eye contact by using rubber or nitrile gloves and wearing of eye protection to avoid contact. Dispose of material according to local, State and Federal waste disposal regulations (see Section 13).

For larger spills, wear personal protective clothing to minimize exposure such as overgarment, gloves and eye protection (goggles), cover spill with absorbent material. For larger spills of Reagent 1 containing sodium hydroxide, wear overgarment and personal protective equipment to avoid skin contact including goggles and rubber or nitrile gloves. Collect spilled material, absorbent, and rinse waters into suitable containers for proper disposal in accordance with applicable local, state or Federal waste disposal regulations (see Section 13).

7. Handling and Storage

Handling Precautions: Avoid skin contact, eye contact and inhalation.

Storage Requirements: Store according to product labeling.

8. Exposure Controls/Personal Protection

Occupational Exposure

Limits: Reagent 1 contains sodium hydroxide which has ACGIH TLV and NIOSH REL of 2 mg/m³ as a ceiling value not to be exceeded for any 15-minute period and an OSHA 8-hour time weighted average of 2 mg/m³. None of the other ingredients contained in this product have occupational exposure limits established by OSHA, NIOSH, ACGIH or Cepheid.

Engineering Controls: None normally required. When practicable, handle material in enclosed or contained processes or in processes with effective local exhaust ventilation.

Eye Protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face.



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Respiratory Protection: When possible, handle material in enclosed processes or containers. If it is properly handled with effective ventilation or containment, respiratory protection should not be needed.

Skin Protection: Rubber gloves are recommended to minimize potential for skin contact. In laboratory setting, wear lab coat or other protective overgarment at a minimum to minimize skin contact. Base the choice of protection on the job activity and potential for skin contact.

Other: Facilities storing or using this product should be equipped with an eyewash station and a safety shower. Wash hands, face and other potentially exposed areas immediately after handling material (especially before eating, drinking, or smoking). Decontaminate all protective equipment after use.

9. Physical and Chemical Properties

Physical State: Beads are solid components in cartridges; reagents are liquids which are primarily buffered aqueous solutions.

Odor: Components are odorless.

Vapor Pressure: Minimal.

Evaporation Rate: Minimal.

Viscosity: Reagents are aqueous.

Boiling Point: Liquid reagents near 100 degrees C.

Freezing/Melting Point: Liquid reagents near 0 degrees C.

Solubility: Reagents are already aqueous; beads are soluble in aqueous solutions.

pH: >12.5 (Reagent 1); 6.6 – 8.6 (Solids & Other liquid reagents).

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other materials: Strong oxidizing agents, peroxides, strong acids and bases, acid chlorides, acid anhydrides, alkali metals, ammonia.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, sodium oxides, potassium oxides, hydrogen chloride, cyanide.

Hazardous Polymerization: Will not occur.



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11. Toxicological Information

Acute Toxicity: The cartridges containing freeze-dried powders should not present an acute toxicity hazard unless the beads are released or spilled. Magnesium chloride has low to moderate acute toxicity with oral LD50 of 2800 mg/kg in the rat. Sodium hydroxide is acutely toxic orally due to its corrosivity. Guanidine thiocyanate has an acute oral LD50 of 593 mg/kg. Tween 20 is not considered acutely toxic.

Irritation/Sensitization: HEPES Salt and HEPES acid are considered skin and eye irritants. Bovine serum albumin, as a foreign protein is considered a potential allergen but because it is contained in the bead within the cartridge, the potential to cause an allergic reaction under normal use conditions is considered low. Tween 20 is considered an irritant to the skin and eyes if contacted and respiratory tract if inhaled.

Repeated dose toxicity – No data identified on ingredients.

Reproductive (fertility) and Developmental (birth defects) toxicity – No data identified. None of the ingredients are considered reproductive or developmental toxicants.

Mutagenicity and Carcinogenicity – No data identified on mutagenicity. None of the ingredients are listed by NTP, IARC or OSHA as carcinogens.

12. Ecological Information

Ecotoxicity: Of the ingredients, guanidine thiocyanate is considered harmful to aquatic organisms. As sodium hydroxide adjusts pH, it has the potential to have harmful effects in the environment if not properly disposed of.

Environmental Fate: No data identified.

13. Disposal Considerations

Biological specimens, including used cartridges, should be treated as capable of transmitting infectious agents. Consult your institution's environmental waste personnel on proper disposal of used cartridges and unused reagents. This material may exhibit characteristics of federal EPA Resource Conservation and Recovery Act (RCRA) hazardous waste requiring specific disposal requirements. Check state and local regulations as they may differ from federal disposal regulations. Institutions outside the USA should check their country hazardous waste disposal requirements.



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14. Transport Information

Transport in accordance with all federal, state, and local transportation regulations.

With the exception of Reagent 1, all of the other components are not regulated by US DOT or IATA.

The transport classification of Reagent 1 contains 1.0N Sodium Hydroxide is :

Class 8, Packing Group II, UN1824.

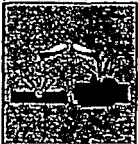
Proper Shipping Name: Sodium Hydroxide Solution.

15. Regulatory Information

US OSHA: This MSDS complies with the requirements under 29 CFR 1910.1200


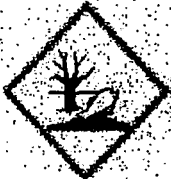
Two of the components of the kit require labeling under either or both of US and EU regulations and therefore labeling of this product should contain the following.

For Reagent 1 - Contains Sodium Hydroxide Solution.



DANGER
Causes burns.
Keep out of reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
EU Risk and Safety Phrases: R 34; S2/26/37/39/45

For Elution Reagent - Contains Guanidine Thiocyanate.



CAUTION
Contact with acids liberates very toxic gas.
Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
Avoid release to environment; refer to special instructions/Safety data sheets.
EU Risk and Safety Phrases: R 32; S2/53; S 61

LBL PN:300-6924; Rev D

Canada - WHMIS Classifications

Reagent 1 is a Corrosive - Class E according to WHMIS classification.

All other components are not classified according to WHMIS classification criteria.



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California Proposition 65

None of the ingredients are listed under California Proposition 65.

SARA 313: Not listed.

CERCLA: Sodium hydroxide has a reportable quantity limit of 1000 lbs; no other ingredients are regulated under CERCLA.

RCRA: Not listed.

For R&D consumers, products are to be used only for R&D purposes.

16. Other Information

No other data available.

Abbreviations:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS#:	Chemical Abstract Services Number
CFR	Code of Federal Regulations
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
DOT:	Department of Transportation
EINECS:	European Inventory of New and Existing Chemical Substances
EU:	European Union
GHS:	Global Harmonization System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
OSHA:	Occupational Safety and Health Administration
NTP:	National Toxicology Program
RCRA:	Resource Conservation and Recovery Act
SARA:	Superfund Amendments and Reauthorization Act
TSCA:	Toxic Substances Control Act

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Laboratory Policy and Procedure**

Procedure Name: MRSA by PCR		
Section: Microbiology	Page 1 of 9	Procedure: MICRO-15.3
Developed: 04/13/10	Reviewed/Revised:	Effective Date: 05/10/10

PURPOSE: This procedure provides instructions for the performance of the Cepheid Xpert MRSA Assay using the GeneXpert Dx System. The Cepheid Xpert MRSA Assay performed in the GeneXpert® Dx System (Xpert MRSA) is a qualitative in vitro diagnostic test designed for rapid detection of methicillin-resistant *Staphylococcus aureus* (MRSA) from nasal swabs in patients at risk for nasal colonization.

RESPONSIBILITY: The Microbiology Shift Supervisor ensures that current instructions for procedures are written and reviewed to ensure testing and reporting consistency. The Shift Supervisor ensures that written procedures are readily available for consultation by the technical staff performing testing. The laboratory director signs and dates written procedures and changes to written procedures. When patient testing is performed, the Shift Supervisor ensures there is no random or inadvertent departure from defined procedures because of neglect or misunderstanding. Testing staff must follow written procedure. LD.04.05.09: The Lab Director is responsible for developing, implementing, and maintaining policies and procedures that guide and support the provision of services.

PRINCIPLE:

The GeneXpert® Dx System automates and integrates sample purification, nucleic acid amplification, and detection of the target sequence in simple or complex samples using real-time PCR and RT-PCR to detect MRSA DNA. The system requires the use of single-use disposable GeneXpert cartridges that hold the PCR reagents and host the PCR process. Because the cartridges are self-contained, cross-contamination between samples is eliminated. For a full description of the system, see the GeneXpert Dx System Operator Manual.

Xpert MRSA Assay includes reagents for the detection of MRSA as well as a sample processing control (SPC) to control for adequate processing of the target bacteria and to monitor the presence of inhibitor(s) in the PCR reaction. The Probe Check Control (PCC) verifies reagent rehydration, PCR tube filling in the cartridge, probe integrity, and dye stability.

CLINICAL UTILITY:

The Xpert MRSA Assay is intended to aid in the prevention and control of MRSA infections in healthcare settings. The Xpert MRSA Assay is not intended to diagnose MRSA nor to guide or monitor treatment for MRSA infections. Concomitant cultures are necessary only to recover organisms for epidemiological typing or for further susceptibility testing.

Staphylococcus aureus (SA) is a major nosocomial pathogen that causes a range of diseases including endocarditis, osteomyelitis, toxic shock syndrome, food poisoning, carbuncles and boils. In the US today, MRSA is responsible for approximately 25% of nosocomial infections and reports of community-acquired MRSA are increasing, resulting in significant morbidity and mortality. Controlling MRSA is a primary focus of most hospital infection control programs. Currently, the standard surveillance method for detecting MRSA is culture, which is very laborious and time intensive. A rapid and more sensitive method for surveillance of MRSA will represent a definite advantage for infection control programs.

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SPECIMEN (REQUIREMENTS):

To obtain adequate specimen, follow the instructions in this section closely.

1. Open the Cepheid Collection Device by peeling back the outer packaging.
2. Ask the patient to tilt his/her head back. Insert dry swabs approximately 1–2 cm into each nostril.
3. Rotate the swabs against the inside of the nostril for 3 seconds. Apply slight pressure with a finger on the outside of the nose to help assure good contact between the swab and the inside of the nose.
4. Using the same swabs, repeat for the second nostril, trying not to touch anything but the inside of the nose.
5. Remove the plastic transport tube. Twist off the tube cap and discard it. Place the swabs into the plastic transport tube. The swabs should go all the way into the tube until they rest on top of the sponge at the bottom of the tube. Make sure the red cap is on tightly. **Note: the swabs should stay attached to the red cap at all times.**
6. Label the plastic transport tube with patient ID and send to the laboratory.

Store swab specimen at room temperature (15–30°C) if it will be processed within 24 hours, otherwise store swab at 2–8°C. The swab specimen is stable up to 5 days when stored at 2–8°C.

SAFETY PRECAUTIONS (IF NEEDED):

Treat all biological specimens, including used cartridges, as if capable of transmitting infectious agents. Because it is often impossible to know which might be infectious, all biological specimens should be treated with universal precautions. Guidelines for specimen handling are available from the U.S. Centers for Disease Control and Prevention and the Clinical and Laboratory Standards Institute (formerly National Committee for Clinical Laboratory Standards). Follow the hospital and laboratory safety procedures for working with chemicals and handling biological samples. Dispose of used Xpert MRSA cartridges according to your institution's safety guidelines for hazardous material.

EQUIPMENT/REAGENTS/SUPPLIES:

The Xpert MRSA(GXMRSA-100N-10) contains sufficient reagents to process 10 specimens or quality control samples. The kit contains the following:

Xpert MRSA Assay Cartridges with integrated reaction tubes
Bead 1 (freeze-dried) 1 per cartridge

• Polymerase

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Reagent 1 (Sodium Hydroxide)
Reagent 2 (Tris Buffer, EDTA and surfactants)
Xpert MRSA reagent pouches
Elution Reagent (Guanidinium thiocyanate and surfactants)

Storage and Handling

- Store the Xpert MRSA cartridges and reagents at 2–28°C.
- Do not use reagents or cartridges that have passed the expiration date.
- Do not open a cartridge until you are ready to perform testing.
- Use the cartridge and reagents within 30 minutes after opening the package.
- Do not use any reagents that have become cloudy or discolored.

Materials Required but Not Provided

- GeneXpert® Dx System: GeneXpert® instrument, computer, barcode wand reader and Manual
- Printer (See GeneXpert® Dx System Operator Manual for compatibility guidelines)
- Cepheid Sample Collection Device (part number 900-0370)
- Vortex mixer
- Disposable, sterile transfer pipettes
- Sterile gauze

Materials Available but Not Provided

KWIK-STIK™ from MicroBiologics catalog # 0158 MRSA as positive control and #0371 MSSE (methicillin sensitive *Staphylococcus epidermis*) as negative control.

CALIBRATION: NOT APPLICABLE

QUALITY CONTROL:

Each test includes a Sample Processing Control (SPC) and probe check (PCC).

Sample processing control (SPC)—Ensures the sample was correctly processed. The SPC contains spores of *Bacillus globigii* in the form of a dry spore cake that is included in each cartridge to verify adequate processing of MRSA. The SPC verifies that lysis of MRSA has occurred if the organisms are present and verifies that specimen processing is adequate. Additionally this control detects specimen-associated inhibition of the real-time PCR assay. The SPC should be positive in a negative sample and can be negative or positive in a positive sample. The SPC passes if it meets the validated acceptance criteria.

Probe check control (PCC)—Before the start of the PCR reaction, the GeneXpert® Dx System measures the fluorescence signal from the probes to monitor bead rehydration, reaction-tube filling, probe integrity and dye stability. Probe Check passes if it meets the assigned acceptance criteria.

External controls—External controls are run every 24 hours.

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PROCEDURE:

Procedure Precautions:

- Do not substitute Xpert MRSA reagents with other reagents.
- Do not open the Xpert MRSA cartridge lid except when adding sample and reagents.
- Do not use a cartridge that has been dropped or shaken after you have added the sample and reagents.
- Do not use a cartridge that has a damaged reaction tube.
- Each single-use Xpert MRSA cartridge is used to process one test. Do not reuse spent cartridges.
- Do not open a cartridge package until you are ready to perform testing.

Preparing the Cartridge

Important: Start the test within 15 minutes of adding the reagents to the cartridge.

Note: Use only one of the swabs. The second swab is required for repeat testing.

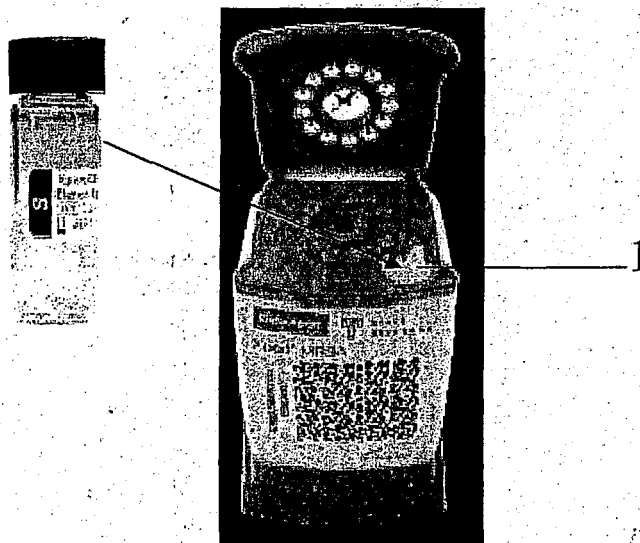
To add the sample and reagents into the cartridge (Xpert MRSA):

1. Remove the cartridge and reagents from the package.
2. Remove the swabs from the transport container and then remove one swab from the red cap.
3. Insert the swab into the tube containing the Elution Reagent (black cap).

Note: Use sterile gauze to minimize risks of contamination.

4. Hold the swab by the stem near the rim of the tube, lift the swab a few millimeters from the bottom of the tube and push the stem against the edge of the tube to break it. Make sure the swab is short enough to allow the cap to close tightly.
5. Close the lid and vortex at high speed for 10 seconds.
6. Open the cartridge lid. Using a sterile transfer pipette, transfer the entire contents of the Elution Reagent to the large notched opening (item #1 in Figure) in the GeneXpert cartridge.
7. Close the cartridge lid.

Figure 1. Xpert MRSA cartridge.



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Starting the Test

Important: Before you start the test,

make sure the Xpert MRSA assay definition is imported into the software.

This section lists the basic steps of running the test. For detailed instructions, see the *GeneXpert® Dx System Operator Manual*.

1. Turn on the computer, and then turn on the GeneXpert® Dx instrument.
2. On the Windows® desktop, double-click the GeneXpert® Dx shortcut icon.
3. Log on to the GeneXpert® Dx System software using your user name and password.
4. In the GeneXpert® Dx System window, click **Create Test**. The Scan Cartridge Barcode dialog box appears.
5. Scan the barcode on the Xpert MRSA cartridge. The Create Test window appears. Using the barcode information, the software automatically fills the boxes for the following fields: Select Assay, Reagent Lot ID, Cartridge SN, and Expiration Date.
6. In the **Sample ID** box, scan or type the sample ID. Make sure you type the correct sample ID. The sample ID is associated with the test results and is shown in the "**View Results**" window and all the reports.
7. Click **Start Test**. In the dialog box that appears, type your password.
8. Open the instrument module door with the blinking green light and load the cartridge.
9. Close the door. The test starts and the green light stops blinking. When the test is finished, the light turns off.
10. Wait until the system releases the door lock before opening the module door and removing the cartridge.
11. The used cartridges should be disposed in the appropriate specimen waste containers according to your institution's standard practices.

CALCULATIONS (IF REQUIRED):

The results are interpolated by the GeneXpert® Dx System from measured fluorescent signals and embedded calculation algorithms and will be shown in the "**View Results**" window. For detailed instructions on how to view and print the results, see the *GeneXpert Dx System Operator Manual*.

INTERPRETATION AND REPORTING RESULTS:

Possible results are:

MRSA POSITIVE

MRSA target DNA is detected (presumptive positive for MRSA colonization)

- MRSA POSITIVE—the MRSA target has a Ct within the valid range and endpoint above the minimum setting.
- SPC—NA (not applicable); SPC is ignored since MRSA amplification may compete with this control.
- Probe Check—PASS; all probe check results pass.

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MRSA NEGATIVE

MRSA target DNA is not detected (presumed not colonized with MRSA), SPC meets acceptance criteria.

- MRSA NEGATIVE- MRSA target DNA is not detected.
- SPC—PASS; SPC has a Ct within the valid range and endpoint above the endpoint minimum setting.
- Probe Check—PASS; all probe check results pass.

INVALID

Presence or absence of MRSA cannot be determined, repeat test with extra swab. SPC does not meet acceptance criteria, the sample was not properly processed, or PCR is inhibited.

- MRSA INVALID- Presence or absence of MRSA DNA cannot be determined.
- SPC—FAIL; MRSA target result is negative and the SPC Ct is not within valid range and endpoint below minimum setting.
- Probe Check—PASS; all probe check results pass.

ERROR

Presence or absence of MRSA cannot be determined, repeat test with extra swab. The Probe Check control failed probably due to reaction tube was filled improperly, a probe integrity problem was detected or because the maximum pressure limits were exceeded.

- MRSA—NO RESULT
- SPC—NO RESULT
- Probe Check—FAIL*; all or one of the probe check results fail

*If the probe check passed, the error is caused by a system component failure.

NO RESULT

Presence or absence of MRSA cannot be determined, repeat test with extra swab. Insufficient data were collected to produce a test result (for example, the operator stopped a test that was in progress).

- MRSA—NO RESULT
- SPC—NO RESULT
- Probe Check—NA (not applicable)

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- A NO RESULT indicates that insufficient data were collected. For example, the operator stopped a test that was in progress.

NORMAL AND PANIC VALUES:

The number and percentage of positive and negative cases relative to the reference culture method are calculated and presented in the table below.

Table 1 Expected Values for MRSA in Different Study Populations

Group	Positive n (%)	Negative n (%)	Total ¹ (%)
Nursing homes, long term and extended stay facilities	62 (25.5)	181 (74.5)	243 (22.6)
Hospitalized >3 days	61 (23.0)	204 (77.0)	265 (24.7)
Hospitalized ≤3 days	29 (13.1)	193 (86.9)	222 (20.7)
Out patient clinic	46 (17.7)	214 (82.3)	260 (24.2)
Staff and others	11 (12.9)	74 (87.1)	85 (7.9)
Total	209 (19.4)	866 (80.6)	1075

All positive MRSA results on inpatients and Home Health are considered to be "Critical Results."

LIMITATIONS:

- The performance of the Xpert MRSA Assay was validated using the procedures provided in this package insert only. Modifications to these procedures may alter the performance of the test. Results from the Xpert MRSA Assay should be interpreted in conjunction with other laboratory and clinical data available to the clinician.
- Erroneous test results might occur from improper specimen collection, not following the recommended sample collection procedure, handling or storage, technical error, sample mix-up, or because the number of organisms in the specimen is not detected by the test. Careful compliance to the instructions in this insert is necessary to avoid erroneous results.
- Because the detection of MRSA is dependent on the number of organisms present in the sample, reliable results are dependent on proper specimen collection, handling, and storage.
- Recollection and Rerunning the Xpert MRSA when results are INVALID, ERROR, and NO RESULT may be required. Alternate procedures are available. For culturing, remaining swab specimens should be placed in appropriate transport systems and cultured within 4 days.
- A positive test result does not necessarily indicate the presence of viable organism. It is however, presumptive for the presence of MRSA.
- Testing with Xpert MRSA assay is used as an adjunct to other methods available.

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- Results may be affected by concurrent antibiotic therapy. Therefore, therapeutic success or failure cannot be assessed using this test because DNA might persist following antimicrobial therapy.
- Mutations or polymorphisms in primer or probe binding regions may affect detection of new or unknown MRSA variants resulting in a false negative result.
- The Xpert MRSA Assay does not provide susceptibility results. Additional time is required to culture and perform susceptibility testing

Interfering substances

Potentially interfering substances evaluated include blood, mucus and nasal sprays used to relieve decongestion, nasal dryness or irritation. The presence of these substances did not significantly inhibit PCR and did not give invalid or erroneous results.

Table 2A Xpert MRSA Compared to Reference Culture Method

Xpert MRSA vs. Reference culture method					
		Culture			
		+	-		
Xpert MRSA	+	182	44	226	Positive Agreement: 86.3%
	-	29	819	848	Negative Agreement: 94.9%
		211	863	1074*	PPV ¹ : 80.5%
					NPV ² : 96.6%

* 3 specimens did not give Xpert results on 2 attempts

¹ Positive predictive value

² Negative predictive value

Table 2B Xpert MRSA Compared to Direct Culture Method

Xpert MRSA vs. Direct culture					
		Direct Culture			
		+	-		
Xpert MRSA	+	165	61	226	Positive Agreement: 94.3%
	-	10	838	848	Negative Agreement: 93.2%
		175	899	1074	PPV ¹ : 73.0%
					NPV ² : 98.8%

St. John's Regional Medical Center
Joplin, Missouri
Laboratory Policy and Procedure

Procedure Name: MRSA by PCR		
Section: Microbiology	Page 9 of 9	Procedure: MICRO-15.3
Developed: 04/13/10	Reviewed/Revised:	Effective Date: 05/10/10

REFERENCES:

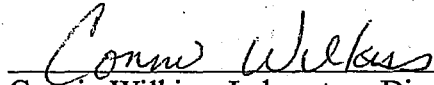
Cepheid Innovation, Xpert MRSA Package Insert 300-5188, Rev. A, December 2008.

APPROVED:



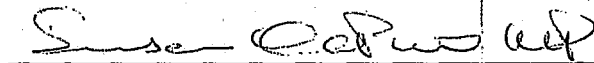
Tom Thiele, Microbiology Shift Supervisor

Date: 4/14/10



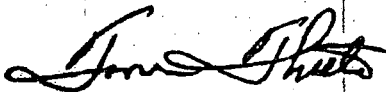
Connie Wilkins, Laboratory Director

Date: 4-16-10



Susan O Pintado, Medical Director

Date: 4/16/10



7/12/10

Prepared by Steven Crown

EMD

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	Buffered Neutral Formalin 10%	Product Code	VW3239
Manufacturer	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	Effective Date	10/14/2005
		Print Date	12/8/2005

For More Information Call

856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym	None.
Material Uses	Laboratory Reagent

Chemical Family Mixture.

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Formaldehyde.	50-00-0	3.7
Methanol	67-56-1	1.5
Sodium Phosphate, Dibasic	7558-79-4	<0.7
Sodium Dihydrogen Phosphate, Monohydrate	10049-21-5	<0.5
Water	7732-18-5	>94

Section 3. Hazards Identification

Physical State and Appearance Liquid.

Emergency Overview

WARNING !
HARMFUL IF SWALLOWED.
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: MUCOUS MEMBRANES, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Routes of Entry Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin.

Inhalation Hazardous in case of inhalation (lung irritant). Non-hazardous in case of inhalation.

Ingestion Hazardous in case of ingestion. Do not take internally.

Potential Chronic Health Effects

Carcinogenic Effects Classified + (Proven.) by OSHA [Formaldehyde]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [Formaldehyde].

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

+ Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: Slightly explosive in presence of open flames, sparks and static discharge. Risks of explosion of the product in presence of mechanical impact: Slightly explosive in presence of shocks.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Special Remarks on Fire Hazards	Development of hazardous combustion gases or vapors possible in the event of fire.

Special Remarks on
Explosion Hazards Not available.

+ Section 6. Accidental Release Measures

Small Spill and Leak Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Spill Kit Information The following EMD Chemicals Inc. SpillSolv (TM) absorbent is recommended for this product:
SX1340 Formaldehyde Treatment Kit

Section 7. Handling and Storage

Handling Avoid prolonged contact with eyes, skin, and clothing. Avoid contact with eyes. Do not ingest. Avoid breathing vapors or spray mists. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

+ Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protection

Eyes Splash goggles.

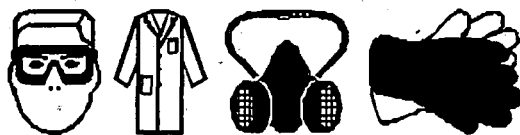
Body Lab coat.

Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

Formaldehyde.

Exposure Limits

EH40-MEL (United Kingdom (UK), 1997).

STEL: 2.5 mg/m³ 15 minute(s).

STEL: 2 ppm 15 minute(s).

TWA: 2.5 mg/m³ 8 hour(s).

TWA: 2 ppm 8 hour(s).

ACGIH (United States, 2000).

CEIL: 0.37 mg/m³

CEIL: 0.3 ppm

NIOSH REL (United States, 1994).

CEIL: 0.1 ppm 15 minute(s).

TWA: 0.01 ppm 10 hour(s).

OSHA Final Rule (United States, 1989).

STEL: 2 ppm 15 minute(s).

TWA: 0.75 ppm 8 hour(s).

Methanol

OSHA Transitional Rule (United States, 1993).

STEL: 2 ppm 15 minute(s).

TWA: 0.75 ppm 8 hour(s).

ACGIH (United States, 1994). SkinTWA: 262 mg/m³STEL: 328 mg/m³**OSHA (United States, 1989). Skin**TWA: 260 mg/m³STEL: 325 mg/m³**ACGIH (United States, 1994). Skin**STEL: 328 mg/m³ 15 minute(s).

STEL: 250 ppm 15 minute(s).

TWA: 262 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

NIOSH REL (United States, 1994). SkinSTEL: 325 mg/m³ 15 minute(s).

STEL: 250 ppm 15 minute(s).

TWA: 260 mg/m³ 10 hour(s).

TWA: 200 ppm 10 hour(s).

OSHA Final Rule (United States, 1989). SkinSTEL: 325 mg/m³ 15 minute(s).

STEL: 250 ppm 15 minute(s).

TWA: 260 mg/m³ 8 hour(s).

TWA: 200 ppm 8 hour(s).

Sodium Phosphate, Dibasic

Not available.

Sodium Dihydrogen Phosphate, Monohydrate

Not available.

Water

Not available.

Section 9. Physical and Chemical Properties

Odor	Pungent.
Color	Clear. Colorless.
Physical State and Appearance	Liquid.
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	7 [Neutral.]
Boiling/Condensation Point	The lowest known value is 64.55°C (148.2°F) (Methanol). Weighted average: 99.27°C (210.7°F)
Melting/Freezing Point	May start to solidify at -0.1°C (31.8°F) based on data for: Water. Weighted average: -4.96°C (23.1°F)
Specific Gravity	Weighted average: 0.98 (Water = 1)
Vapor Pressure	The highest known value is 12.9 kPa (97 mmHg) (@ 20°C) (METHANOL).
Vapor Density	The highest known value is 1.11 (Air = 1) (METHANOL). Weighted average: 1.06 (Air = 1)
Volatility	99.9% (v/v). (METHANOL.)
Odor Threshold	The lowest known value is 0.05 ppm (Formaldehyde.) Weighted average: 28.88 ppm
Evaporation Rate	0.36 (Water) compared to (n-Butyl Acetate = 1)
VOC	5 (%)
LogK _{ow}	Not available.

Solubility

Soluble in water.

Section 10. Stability and Reactivity**Stability and Reactivity** The product is stable.**Conditions of Instability** Not available.**Incompatibility with Various Substances** Highly reactive with oxidizing agents, acids, alkalis.
Slightly reactive to reactive with metals.**Rem/Incompatibility** Not available.**Hazardous Decomposition Products** COX , Na2O**Hazardous Polymerization** Will not occur.**Section 11. Toxicological Information**

RTECS Number:	Formaldehyde	LP8925000
	Methanol	PC1400000
	Sodium Phosphate, Dibasic, Anhydrous	WC4500000
	Sodium dihydrogen phosphate monohydrate	Not available.
	Water	ZC0110000

Toxicity Acute oral toxicity (LD₅₀): 100 mg/kg [Rat]. (Formaldehyde.).
Acute dermal toxicity (LD₅₀): 15800 mg/kg [Rabbit]. (Methanol).
Acute toxicity of the vapor (LC₅₀): 64000 ppm 4 hour(s) [Rat]. (Methanol).**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Classified + (Proven.) by OSHA [Formaldehyde.]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [Formaldehyde.].**Acute Effects on Humans** Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin. Hazardous in case of inhalation (lung irritant). Non-hazardous in case of inhalation. Hazardous in case of ingestion.**Synergetic Products (Toxicologically)** Not available.**Irritancy** Draize Test Not available.**Sensitization** Not available.**Carcinogenic Effects** Classified + (Proven.) by OSHA [Formaldehyde.]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC [Formaldehyde.].**Toxicity to Reproductive System** Not available.**Teratogenic Effects** Not available.**Mutagenic Effects** Not available.**Section 12. Ecological Information****Ecotoxicity** Not available.**BOD5 and COD** Not available.**Toxicity of the Products of Biodegradation** The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number U122 U154

Treatment Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites. ALWAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

Section 14. Transport Information

DOT Classification Not available.

TDG Classification Not available.

IMO/IMDG Classification Not available.

ICAO/IATA Classification Not available.

+ Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: Formaldehyde.; Methanol; Sodium Phosphate, Dibasic ; Sodium Dihydrogen Phosphate, Monohydrate; Water
SARA 302/304/311/312 extremely hazardous substances: Formaldehyde.
SARA 302/304 emergency planning and notification: Formaldehyde.
SARA 302/304/311/312 hazardous chemicals: Formaldehyde.; Methanol; Sodium Phosphate, Dibasic
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Formaldehyde.; Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Methanol: Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Sodium Phosphate, Dibasic : Immediate (Acute) Health Hazard
SARA 313 toxic chemical notification and release reporting: Formaldehyde. 3.7%; Methanol 1.5%
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: Formaldehyde.; Sodium Phosphate, Dibasic
Clean air act (CAA) 112 accidental release prevention: Formaldehyde.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: Formaldehyde.

WHMIS (Canada) Class D-2A: Material causing other toxic effects (VERY TOXIC).

CEPA DSL: Formaldehyde.; Methanol; Sodium Phosphate, Dibasic ; Water

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS	Formaldehyde.	200-001-8
	Methanol	200-659-6
	Sodium Phosphate, Dibasic	231-448-7
	Sodium Dihydrogen Phosphate, Monohydrate	231-449-2
	Water	231-791-2

DSCL (EEC) R22- Harmful if swallowed.
R36/38- Irritating to eyes and skin.

International Lists Australia (NICNAS): Formaldehyde.; Methanol; Sodium Phosphate, Dibasic ; Sodium Dihydrogen Phosphate, Monohydrate; Water

Japan (MITI): Formaldehyde.; Methanol; Sodium Phosphate, Dibasic ; Water

Japan (MOL): Formaldehyde.

Korea (TCCL): Formaldehyde.; Methanol; Sodium Phosphate, Dibasic ; Water

Philippines (RA6969): Formaldehyde.; Methanol; Sodium Phosphate, Dibasic ; Water

China: No products were found.

State Regulations

Pennsylvania RTK: Formaldehyde.: (special hazard, environmental hazard, generic environmental hazard); Methanol: (environmental hazard, generic environmental hazard); Sodium Phosphate, Dibasic : (environmental hazard, generic environmental hazard)

Massachusetts RTK: Formaldehyde.; Methanol; Sodium Phosphate, Dibasic

New Jersey: Buffered Neutral Formalin 10%

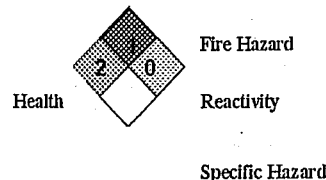
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Formaldehyde.

California prop. 65 (no significant risk level): Formaldehyde.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Formaldehyde.

Section 16. Other Information

**National Fire
Protection
Association
(U.S.A.)**



Changed Since Last : +
Revision

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

Buffered Neutral Formalin 10%

VW3239

Page: 7/7

Continued on Next Page

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Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ 1228 Indicator Tape
MANUFACTURER: 3M
DIVISION: Infection Prevention Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 02/28/11
Supersedes Date: 06/10/10

Document Group: 18-4831-6

Product Use:

Intended Use: For use in Optreoz or vapor phase hydrogen peroxide (VHP) sterilization processes.

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
Polyester film backing	None	55 - 65
Styrene-butadiene polymer	9003-55-8	10 - 20
Polyterpene resin	31593-98-3	10 - 20

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Roll of Tape
Odor, Color, Grade: White polyester tape with blue stripes.
General Physical Form: Solid

Immediate health, physical, and environmental hazards:

The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

No health effects are expected.

Skin Contact:

No health effects are expected.

Inhalation:

No health effects are expected.

Ingestion:

No health effects are expected.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated.

Inhalation: No need for first aid is anticipated.

If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature
Flash Point
Flammable Limits(LEL)
Flammable Limits(UEL)

No Data Available
Not Applicable
Not Applicable
Not Applicable

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable. No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Dispose of collected material as soon as possible.

Clean-up methods

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. Avoid contact with oxidizing agents. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Not applicable. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

The following eye protection(s) are recommended: Safety Glasses with side shields

8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Nitrile Rubber

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Not applicable.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
PETROLEUM DISTILLATES	OSHA	TWA	2000 mg/m3	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Roll of Tape
Odor, Color, Grade:	White polyester tape with blue stripes.
General Physical Form:	Solid
Autoignition temperature	No Data Available
Flash Point	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Boiling Point	Not Applicable
Density	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	Not Applicable
pH	Not Applicable
Melting point	No Data Available
Solubility in Water	Nil
Average particle size	Not Applicable
Evaporation rate	Not Applicable
K _{ow} Oct/Water partition coef	Not Applicable
Percent volatile	Not Applicable
Viscosity	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

Heat

10.2 Materials to avoid

Strong acids

Strong oxidizing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Aldehydes

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not applicable.

CHEMICAL FATE INFORMATION

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator. Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

70-2007-1887-5, 70-2007-6395-4

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15 REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16 OTHER INFORMATION

NEPA Hazard Classification

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are

presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 1: Product name was modified.

Copyright was modified.

Section 5: Unusual fire and explosion hazard information was modified.

Section 7: Handling information was modified.

Section 7: Storage information was modified.

Section 14: Transportation legal text was modified.

Page Heading: Product name was modified.

Section 9: Boiling point information was modified.

Section 5: Flammable limits (UE) information was modified.

Section 5: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) information was modified.

Section 6: 6.2. Environmental precautions heading was modified.

Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was modified.

Section 8: Skin protection phrase was added.

Section 6: Environmental procedures information was added.

Section 6: Methods for cleaning up information was added.

Section 8: Eye/face protection phrase was deleted.

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3M MSDSs are available at www.3M.com

Hydrogen Peroxide

Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 1248 Gas Plasma Chemical Indicator Strip

MANUFACTURER: 3M

DIVISION: Infection Prevention Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 06/03/10

Supersedes Date: 06/03/10

Document Group: 17-8784-5

Product Use:

Intended Use: Chemical indicator for the gas plasma sterilization process.

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
Polystyrene film coated with indicator strip and graphics	None	>99

All other ingredients comprise the graphics and indicator ink systems.

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Polystyrene film with an ink strip printed on it.

Odor, Color, Grade: White strip with blue ink & no odor

General Physical Form: Solid

Immediate health, physical, and environmental hazards:

The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

3.2 POTENTIAL HEALTH EFFECTS**Eye Contact:**

No health effects are expected.

Skin Contact:

No health effects are expected.

Inhalation:

No health effects are expected.

Ingestion:

No health effects are expected.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

SECTION 4: FIRST AID MEASURES**4.1 FIRST AID PROCEDURES**

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated.

Inhalation: No need for first aid is anticipated.

If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES**5.1 FLAMMABLE PROPERTIES**

Flash Point

Not Applicable

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid prolonged or repeated skin contact. This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Store away from heat. Store in a dry location according to the package instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Not applicable.

8.2.2 Skin Protection

Not applicable.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing
Not applicable.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Polystyrene film with an ink strip printed on it.
Odor, Color, Grade:	White strip with blue ink & no odor
General Physical Form:	Solid

Flash Point	Not Applicable
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Boiling point	Not Applicable
Density	Not Applicable

Specific Gravity	Not Applicable
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Evaporation rate	Not Applicable
Kow - Oct/Water partition coef	Not Applicable
Viscosity	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not applicable.

CHEMICAL FATE INFORMATION

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a sanitary landfill. As a disposal alternative, Incinerate in an industrial or commercial facility in the presence of a combustible material.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):
70-2007-1888-3

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

Revision Changes:

Copyright was modified.

Section 8: Skin protection phrase was modified.

Section 9: Property description for optional properties was added.

Section 10.1 Conditions to avoid heading was added.

Section 10.2 Materials to avoid heading was added.

Section 6: Environmental procedures information was added.

Section 10: Materials to avoid physical property was added.

Section 10: Conditions to avoid physical property was added.

Section 6: Release measures information was deleted.

Section 10: Materials and conditions to avoid physical property was deleted.

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Class 5



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Comply™ (SteriGage™) Chemical Integrator 1243

MANUFACTURER: 3M

DIVISION: Infection Prevention Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 01/06/11
Supersedes Date: 05/11/09

Document Group: 19-0529-8

Product Use:

Intended Use: To indicate conditions for steam sterilization.

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt.
Paper	Unknown	> 92
Salicylamide	65-45-2	< 8

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: White paper strip with blue ink.

General Physical Form: Solid

Immediate health, physical, and environmental hazards:

This product, when used under reasonable conditions and

in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

No health effects are expected.

Skin Contact:

No health effects are expected.

Inhalation:

No health effects are expected.

Ingestion:

No health effects are expected.

Carcinogenicity:

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Class Description</u>	<u>Regulation</u>
Arsenic	7440382	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Arsenic	7440382	Cancer hazard	OSHA Carcinogens
ARSENIC COMPOUNDS	S-AS-C	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
ARSENIC COMPOUNDS, INORGANIC	S-AS-I	Known human carcinogen	National Toxicology Program Carcinogens
ARSENIC COMPOUNDS, INORGANIC	S-AS-I	Cancer hazard	OSHA Carcinogens
Cadmium	7440439	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Cadmium	7440439	Known human carcinogen	National Toxicology Program Carcinogens
Cadmium	7440439	Cancer hazard	OSHA Carcinogens
CADMIUM COMPOUNDS	S-CD-C	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
CADMIUM COMPOUNDS	S-CD-C	Known human carcinogen	National Toxicology Program Carcinogens
CADMIUM COMPOUNDS	S-CD-C	Cancer hazard	OSHA Carcinogens
Lead	7439921	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Lead	7439921	Anticipated human carcinogen	National Toxicology Program Carcinogens
LEAD COMPOUNDS	S-PB-C	Anticipated human carcinogen	National Toxicology Program Carcinogens
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	SEQ677	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	SEQ677	Known human carcinogen	National Toxicology Program Carcinogens

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated.

Inhalation: No need for first aid is anticipated.

If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	Not Applicable
Flash Point	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable

5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2 Environmental precautions

Not applicable.

Clean-up methods

Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Not applicable.

8.2.2 Skin Protection

Not applicable.

8.2.3 Respiratory Protection

Not applicable.

8.2.4 Prevention of Swallowing

Not applicable.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
Arsenic	ACGIH	TWA, as As	0.01 mg/m3	
Arsenic	OSHA	TWA	0.01 mg/m3	29 CFR 1910.1018
ARSENIC COMPOUNDS, INORGANIC	ACGIH	TWA, as As	0.01 mg/m3	
ARSENIC COMPOUNDS, INORGANIC	OSHA	TWA	0.01 mg/m3	29 CFR 1910.1018
Cadmium	ACGIH	TWA, as Cd, respirable	0.002 mg/m3	
Cadmium	ACGIH	TWA, as Cd	0.01 mg/m3	
Cadmium	OSHA	TWA	0.005 mg/m3	29 CFR 1910.1027
Cadmium	OSHA	TWA, as fume	0.1 mg/m3	
Cadmium	OSHA	TWA, as dust	0.2 mg/m3	
Cadmium	OSHA	CEIL, as fume	0.3 mg/m3	
Cadmium	OSHA	CEIL, as dust	0.6 mg/m3	
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd, respirable	0.002 mg/m3	
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd	0.01 mg/m3	
CADMIUM COMPOUNDS	OSHA	TWA	0.005 mg/m3	29 CFR 1910.1027
Chromium	ACGIH	TWA, as Cr	0.5 mg/m3	
Chromium	OSHA	TWA, as Cr	1 mg/m3	
Lead	ACGIH	TWA, as Pb	0.05 mg/m3	
Lead	OSHA	TWA	0.05 mg/m3	29 CFR 1910.1025
Mercury	ACGIH	TWA, as Hg	0.025 mg/m3	Skin Notation*
Mercury	OSHA	CEIL	0.1 mg/m3	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade:	White paper strip with blue ink.
General Physical Form:	Solid
Autoignition temperature	Not Applicable
Flash Point	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Boiling Point	Not Applicable
Density	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	Not Applicable
pH	Not Applicable
Melting point	Not Applicable
Solubility in Water	Nil
Evaporation rate	No Data Available
Kow - Oct/Water partition coef	No Data Available
Viscosity	No Data Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not applicable.

CHEMICAL FATE INFORMATION

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

70-2007-0269-7, 70-2007-0270-5, 70-2007-0271-3

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>
ARSENIC COMPOUNDS, INORGANIC	S-AS-I	**Carcinogen
CADMIUM COMPOUNDS	S-CD-C	*Male reproductive toxin
CADMIUM COMPOUNDS	S-CD-C	**Carcinogen
CADMIUM COMPOUNDS	S-CD-C	*Developmental Toxin
Arsenic	7440382	**Carcinogen
Cadmium	7440439	*Male reproductive toxin

Cadmium	7440439	**Carcinogen
Cadmium	7440439	*Developmental Toxin
Lead	7439921	*Female reproductive toxin
Lead	7439921	*Male reproductive toxin
Lead	7439921	**Carcinogen
Lead	7439921	*Developmental Toxin
Mercury	7439976	*Developmental Toxin
LEAD COMPOUNDS	S~PB~C	*Female reproductive toxin
LEAD COMPOUNDS	S~PB~C	*Male reproductive toxin
LEAD COMPOUNDS	S~PB~C	**Carcinogen
LEAD COMPOUNDS	S~PB~C	*Developmental Toxin
MERCURY COMPOUNDS	S~HG~C	*Developmental Toxin
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	SEQ677	**Carcinogen

* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

** WARNING: contains a chemical which can cause cancer.

CHEMICAL INVENTORIES

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16 OTHER INFORMATION

NEPA Hazard Classification

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Copyright was modified.

Section 14: Transportation legal text was modified.

Section 9: Boiling point information was modified.

Section 5: Flammable limits (UE) information was modified.

Section 5: Flammable limits (LEL) information was modified.
 Section 9: Flammable limits (LEL) information was modified.
 Section 9: Flammable limits (UEL) information was modified.
 Section 15: California proposition 65 reproductive harm warning was added.
 Section 9: Property description for optional properties was added.
 Section 8: Exposure guidelines ingredient information was added.
 Section 3: Carcinogenicity table was added.
 Section 3: Carcinogenicity heading was added.
 Section 15: California proposition 65 ingredient information was added.
 Section 15: California proposition 65 heading was added.
 Section 15: California proposition 65 cancer warning was added.
 Section 6: 6.2. Environmental precautions heading was added.
 Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added.
 Section 10.1 Conditions to avoid heading was added.
 Section 10.2 Materials to avoid heading was added.
 Section 6: Personal precautions information was added.
 Section 6: Environmental procedures information was added.
 Section 6: Methods for cleaning up information was added.
 Section 10: Materials to avoid physical property was added.
 Section 10: Conditions to avoid physical property was added.
 Section 6: Clean-up methods heading was added.
 Section 6: Release measures information was deleted.
 Section 6: Release measures heading was deleted.
 Section 10: Materials and conditions to avoid physical property was deleted.
 Section 8: Exposure guidelines information - none - was deleted.

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Comply™ Steam Indicator Tape (1201, 1222, 1223, 1255)

MANUFACTURER: 3M

DIVISION: Infection Prevention Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 04/12/11

Supersedes Date: 06/03/10

Document Group: 11-3029-3

Product Use:

Intended Use: To hold packs and indicate conditions for steam sterilization.

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Semi-bleached craft paper	None	35 - 40
Natural Rubber Saturant	Trade Secret	20 - 26
Natural Rubber Adhesive	None	20 - 24
BUTYLATED UREA-FORMALDEHYDE RESIN	68002-19-7	1 - 7
Acrylate Copolymer	None	2 - 4
LEAD CARBONATE HYDROXIDE	1319-46-6	<= 0.7
ETHYL ALCOHOL	64-17-5	< 0.5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Roll of Tape

Odor, Color, Grade: Printed paper or tape, white, beige or blue.

General Physical Form: Solid

Immediate health, physical, and environmental hazards: This product contains dry Natural Rubber. Contains a chemical or chemicals which can cause cancer. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

NOTE: This product contains ethanol. There are data associating human consumption of alcoholic beverages (ethanol) with developmental toxicity. This is not an expected effect during the foreseeable use of this product.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

NOTE: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

Ingredient	C.A.S. No.	Class Description	Regulation
ETHYL ALCOHOL	64-17-5	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
LEAD COMPOUNDS	S-PB-C	Anticipated human carcinogen	National Toxicology Program Carcinogens
LEAD, INORGANIC COMPOUNDS	S-PB-I	Grp. 2A: Probable human carc.	International Agency for Research on Cancer

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

The components labeled "Inorganic" do not biodegrade, but may be removed by other mechanisms. Tests show that the components labeled "Bioconcentrate" will bioconcentrate or accumulate in living organisms. ** Statements for Lead Carbonate Hydroxide (1319-46-6) are based on data for Lead (7439-92-1).

Inorganic: Lead Carbonate Hydroxide (1319-46-6)

Bioconcentrate: Lead Carbonate Hydroxide (1319-46-6)

Lead is very toxic to aquatic organisms (0.1 mg/L < Lowest LC50, EC50, or IC50 < 1 mg/L).

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention. No need for first aid is anticipated.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention. No need for first aid is anticipated.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention. This product contains Lead and should be kept out of the reach of children. If ingested immediately consult a physician.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature

No Data Available

Flash Point

Not Applicable

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated. See decomposition data in Section 10.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel.

6.2 Environmental precautions

Dispose of collected material as soon as possible.

Clean-up methods

Collect as much of the spilled material as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid skin contact with hot material. For industrial or professional use only. Do not ingest.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 ENGINEERING CONTROLS**

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust when product is heated.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)**8.2.1 Eye/Face Protection**

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields

8.2.2 Skin Protection

Avoid skin contact. Avoid skin contact with hot material. Wear appropriate gloves, such as Nomex, when handling this material to prevent thermal burns. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	Additional Information
Semi-bleached craft paper	ACGIH	TWA	10 mg/m ³	
Semi-bleached craft paper	OSHA	TWA, respirable fraction	5 mg/m ³	
Semi-bleached craft paper	OSHA	TWA, as total dust	15 mg/m ³	
ETHYL ALCOHOL	ACGIH	STEL	1000 ppm	
ETHYL ALCOHOL	OSHA	TWA	1900 mg/m ³	

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:

Roll of Tape

Odor, Color, Grade:	Printed paper or tape, white, beige or blue.
General Physical Form:	Solid
Autoignition temperature	No Data Available
Flash Point	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Boiling Point	No Data Available
Density	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	Not Applicable
pH	Not Applicable
Melting point	No Data Available
Solubility In Water	Not Applicable
Evaporation rate	Not Applicable
Volatile Organic Compounds	Not Applicable
Kow - Oct/Water partition coef	Not Applicable
Percent volatile	Not Applicable
VOC Less H2O & Exempt Solvents	No Data Available
Viscosity	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
Formaldehyde	At Elevated Temperatures
Carbon monoxide	Oxidation, heat or reaction
Carbon dioxide	Oxidation, heat or reaction

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

Formaldehyde (CAS# 50-00-0). The 1222 tape contains a formaldehyde based resin. It is known that these resins may decompose under elevated temperatures and can potentially generate formaldehyde. While sampling inside a steam autoclave, indicated small amounts of formaldehyde could be generated during a sterilization cycle, no exposure to gaseous formaldehyde is expected at normal room temperature. At temperatures greater than 30° Celcius, estimated concentrations of formaldehyde in air during packing and off-gassing were calculated to be below 0.1 ppm. Since workplaces can vary, an exposure assessment should be conducted if the need to confirm these results for a specific workplace is identified.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a permitted hazardous waste facility.

Dispose of waste consisting of only pre- and/or post-sterilization tape material in a permitted hazardous waste facility.

Additional Information: Dispose as appropriate for your waste stream in accordance with local, state and federal regulations.

EPA Hazardous Waste Number (RCRA): D008 (Lead)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

44-0022-3071-0, 70-2004-6651-7, 70-2004-6652-5, 70-2004-6653-3, 70-2007-0997-3, 70-2007-2176-2, 70-2007-2177-0, 70-2007-2178-8, 70-2007-2179-6, CT-0606-0186-2, CT-0606-0187-0, CT-0606-0188-8, CT-0608-9007-7, CT-0608-9012-7, CT-0608-9013-5

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No.	% by Wt
LEAD CARBONATE HYDROXIDE (LEAD COMPOUNDS)	1319-46-6	<= 0.7
LEAD CARBONATE HYDROXIDE (LEAD, INORGANIC COMPOUNDS)	1319-46-6	<= 0.7

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

Ingredient

LEAD COMPOUNDS
LEAD COMPOUNDS
LEAD COMPOUNDS
LEAD COMPOUNDS

C.A.S. No.

S~PB~C
S~PB~C
S~PB~C
S~PB~C

Classification

*Female reproductive toxin
*Male reproductive toxin
**Carcinogen
*Developmental Toxin

* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

** WARNING: contains a chemical which can cause cancer.

CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

Additional Information: Limits changed to comply with Canadian regulations.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 16: Disclaimer (second paragraph) was modified.
Section 5: Extinguishing media information was modified.
Section 5: Unusual fire and explosion hazard information was modified.
Section 7: Handling information was modified.
Section 8: Prevention of swallowing information was modified.
Section 10: Hazardous decomposition or by-products table was modified.
Section 14: Transportation legal text was modified.
Section 15: Inventories information was modified.
Section 9: Boiling point information was modified.
Section 5: Flammable limits (UE) information was modified.
Section 5: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (UEL) information was modified.
Section 2: Ingredient table was modified.
Section 8: Exposure guidelines ingredient information was modified.
Section 3: Carcinogenicity table was modified.

Section 15: California proposition 65 ingredient information was modified.
Section 6: Environmental procedures information was modified.
Section 10: Hazardous decomposition or by-products comment was added.
Section 10: Hazardous decomposition or by-products phrase was added.
Section 13: Waste disposal method information was added.
Section 10: Hazardous decomposition heading was added.
Section 12: Ecotoxicological phrase was added.
Section 12: Chemical Fate phrase was added.
Section 6: 6.2. Environmental precautions heading was added.
Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added.
Section 16: Web address was added.
Section 6: Personal precautions information was added.
Section 6: Methods for cleaning up information was added.
Section 8: Hand protection information was added.
Section 1: Address was added.
Copyright was added.
Company logo was added.
Section 6: Clean-up methods heading was added.
Telephone header was added.
Company Telephone was added.
Section 1: Emergency phone information was added.
Section 1: Emergency phone information was deleted.
Company Logo was deleted.
Copyright was deleted.
Section 16: Web address heading was deleted.
Section 6: Release measures heading was deleted.
Section 1: Address line 1 was deleted.
Section 1: Address line 2 was deleted.
Section 12: Ecotoxicological information comment was deleted.
Section 12: Chemical Fate information comment was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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3M USA MSDSs are available at www.3M.com

STERIS



SAFETY DATA SHEET

1. Identification of the Substance and Company

Verify Chemical Indicator for SYSTEM 1® Sterile Processing Systems

Product No. LCC008 AND LCC009
MSDS No. S202

NFPA 704 HAZARD RATING:

HEALTH: ND
FIRE: ND
REACTIVITY: ND

Prepared by: M. Ebers
asksteris_msd@steris.com

Date Created: March 9, 2006 Date Revised: June 12, 2008 Date Reviewed: NA

STERIS Corporation, P.O. Box 147, St. Louis, Mo 63166, US
Emergency Telephone No. 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)
Telephone Number for information: 1-800-548-4873 (Customer Service – Healthcare Products)

Albert Browne Limited, Chancery House, 190 Waterside Road, Hamilton Industrial Park,
Leicester, LE5 1QZ, UK
Product/Technical Information Phone No: 44 (0)116 276 8636

PRODUCT NAME:	PRODUCT NUMBER:
Verify SPI Chemical Indicator	LCC008
Verify SPI Chemical Indicator	LCC009
SHIPPING INFORMATION:	NOT RESTRICTED

These products are NOT hazardous products according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Verify Chemical Indicator for System 1® does not contain any components derived from animal origin, does not come into contact with materials of animal origin and therefore complies with the "Note for guidance of minimizing the risk of transmitting animal spongiform encephalopathy agents via human Veterinary medicinal products (EMA/V410/01 Rev. 2-October 2003)".

Free from lead and other heavy metals.

In The Case Of Accidental Exposure, Take The Following Precautionary Measures:

EYES: Immediately flush eyes with plenty of water for 15 minutes. Get medical attention if irritation persists.

SKIN: Immediately wash with soap and water. Get medical attention if irritation develops.

INGESTION: Give water to drink and get medical advice.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

Chemical Monitoring Strips Handling And Disposal:

Handling and Storage Precautions: Keep cap tightly closed. Store at 6°C (43°F) to 30°C (86°F) and 30-60% relative humidity.

Waste Disposal Methods: Dispose of used/expired test strips and plastic bottles in trash receptacle in accordance with federal, state, and local regulations.



May 28, 2009

Dear Valued Customer:

I am writing in response to your questions about the lead and/or latex content of the 3M™ Comply™ 1222 Steam Indicator Tape and 3M™ Comply™ 1255 Steam Indicator Tape for Disposable Wraps.

3M™ Comply™ 1222 Steam Indicator Tape and 3M™ Comply™ 1255 Steam Indicator Tape for Disposable Wraps.

The Comply 1222 and 1255 steam indicator tapes contain both lead and latex. The lead is included as a component of the color development system that monitors process conformance to effective sterilization conditions. The latex comes from the rubber latex based adhesive used to reliably adhere and secure the sterilization packs.

Lead is recognized as a hazardous substance by the EPA. The Material Safety Data Sheet (MSDS) included outlines specific disposal considerations to address this condition.

Section 13: Disposal Considerations

Waste Disposal Method: Dispose of waste consisting of only post-sterilization tape material in a permitted hazardous waste facility.

Additional Information: Dispose as appropriate for your waste stream in accordance with local, state and federal regulations.

EPA Hazardous Waste Number (RCRA): D008 (Lead)

The Comply 1222 tape was tested [Toxic Chemical Leaching Protocol (TCLP)] as a singular waste stream using only post-sterilization tape samples as the solid waste. The data collected showed values above the EPA limit for lead, consistent with the D008 hazard classification. This designation, however, may not be representative of the actual hospital waste stream. If the tape is disposed of along with the packaging material, drapes and other paper products used in surgery, then the actual weight percent of lead is reduced and the waste may comply with the EPA standard and not be considered hazardous requiring special disposal.

Each facility must assess its own individual waste stream profile and develop appropriate disposal procedures consistent with local, state and federal regulations. The EPA regulation for hazardous waste disposal is described in 40 CFR 261.24. (This

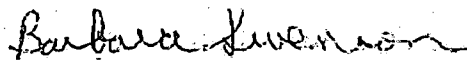
regulation document is available on-line at www.EPA.gov if you don't have a published copy of it.)

The MSDS information and data does not reflect the hospital waste stream but only the individual product described. Since the TCLP value for the product only is above the EPA limit, the D008 hazard classification described in the MSDS is used. The TCLP value for the hospital waste stream may be different than that determined for the individual product.

This same information about the waste stream would apply to any 3M product that contains lead.

We hope this information is of help. Please contact us if you have future questions or needs. Thank you so much for using 3M products.

Sincerely,



Barbara C. Swenson
Regulatory Affairs
3M Infection Prevention Division
3M Center, Bldg 275-05-W-06
St. Paul, MN 55144-1000
Tel: 651-736-1964; Fax: 651-737-5320
Email: bcswenson@mmm.com



Sandra Velte
Technical Service Representative
3M Infection Prevention Division
3M Center, Bldg 270-04-N-01
St. Paul, MN 55144-1000
Tel: 651-575-0932, Fax: 651-736-7329
Email: svelte@mmm.com

~ EPA1222.doc



May 28, 2009

Dear Valued Customer:

The management and control of waste derived from the use of disposal wraps secured with either 3M™ Comply™ 1222 Indicator Tape for Steam Sterilization or 1255 Steam Indicator Tape for Disposable Wraps, both containing lead, must meet EPA regulatory requirements for environmental exposure. Specifically, the disposal of such solid waste must comply with the Toxic Chemical Leaching Procedure (TCLP) limits. 3M has acquired limited data on the results of such testing that may be useful to you.

The data was generated using Kimberly-Clark (KC) KIMGUARD™ One-Step square wraps of several dimensions. The size and amount of tape used with each wrapper is listed below.

Wrapper Size	Amount of Tape
24 X 24 (Cat. No. 62224)	2 pieces, 8 inches by ¾ inch
36 X 36 (Cat. No. 62236)	2 pieces, 12 inches by ¾ inch
45 X 45 (Cat. No. 62245)	2 pieces, 15 inches by ¾ inch
54 X 54 (Cat. No. 62254)	2 pieces, 14 inches by ¾ inch

The TCLP results ranged from a high of 4.7 mg/L (milligram/liter) to a low of 1.6 mg/L with most measurements in the nominal range of 2-3 mg/L. The EPA limit for hazardous declaration is anything above 5.0 mg/L for lead. Controls on the wrap-only showed no contribution from the wrap source. (The sample size was limited and while reliable and consistent with expectations, it was not large enough to be represented statistically.)

From these results, which are admittedly unique to the particular situation tested, we conclude that when the indicator tape is used in a standard steam sterilization process with disposable wraps and disposed collectively as a waste unit, the waste will comply with the EPA guideline and is not hazardous for lead. If this waste unit is, however, sorted for the indicator tape, that waste is hazardous as described in the MSDS.

If you have follow up questions on this information please contact me or your local 3M sales representative

Sincerely,

Barbara C. Swenson
Regulatory Affairs
3M Infection Prevention Division
3M Center, Bldg 275-05-W-06
St. Paul, MN 55144-1000
Tel: 651-736-1964; Fax: 651-737-5320
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Sandra Velte
Technical Service Representative
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Tel: 651-575-0932, Fax: 651-736-7329
Email: svelte@mmm.com

Date Revised: February 1, 2006

Section I. Product Identification

Product Name: Barium Sulfate Powder
Manufacturer: E-Z-EM, Canada, on behalf of E-Z-EM, Inc., 1111 Marcus Avenue, Suite LL-26, Lake Success, New York, 11042
Emergency/Information Contact: Adrienne Setton
Emergency/Information Telephone: (800)-544-4624 or (516) 333-8230, extension 3400
Product Codes: 788

Section II. Components

Components	CAS No.	% (Optional)
Barium Sulfate (can contain silica - quartz)	7727-43-7 (14808-60-7)	99+% (0.1 - 1% of barium sulfate)

Section III. Physical Data

Boiling Point: N/A
Specific Gravity (H₂O = 1): N/A
Vapor Pressure (mm Hg): N/A
Melting Point: Not tested
Vapor Density (Air = 1): N/A
Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Insoluble
Appearance & Odor: White to off-white powder with no odor, slightly fruity or vanillin odor.

Section IV. Fire and Explosion Hazard Data

Flash Point (method): N/A
Flammable Limits: UEL - N/A LEL - N/A
Fire Extinguishing Media: Use extinguishing media that is suitable for surrounding fire.
Special Fire Fighting Procedures: Firefighters should wear full protective equipment and self-contained breathing apparatus with full face piece.
Unusual Fire & Explosion Hazards: None known
Toxic Gases Emitted: Sulfur dioxide

Section V. Reactivity Data

Stability: Stable
Conditions to avoid: None documented
Incompatible materials: Phosphorus, Aluminum
Decomposition products: Not tested
Hazardous Polymerization: Will not occur

Section VI. Health Hazard Data

Permissible Exposure Limit (PEL) for barium sulfate: Total Dust - 15 mg/m³ Time Weighted Average (TWA), Respirable dust - 5 mg/m³ TWA
Threshold Limit Value (TLV) for barium sulfate: Total Dust - 10 mg/m³ TWA Silica - quartz, respirable dust - 0.1 mg/m³ TWA
Short-Term Exposure Limit (STEL): Not established
Routes of Exposure: Inhalation, Ingestion
Health Hazards (acute and chronic): Through normal routes of entry, not expected to be a hazard. May cause irritation to eyes, skin and lungs. No adverse health effects expected from chronic exposure.
Carcinogenicity: Crystalline silica is listed by IARC as a Class 2A carcinogen based on limited evidence in humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a substance reasonably anticipated to be a carcinogen. NTP: Yes IARC: Yes OSHA: No
Effects of exposure: : May cause constipation. Eyes, skin and lungs may become irritated.
Medical conditions generally aggravated by exposure: No information found relating to normal routes of

Date Revised: February 1, 2006

Section I. Product Identification

Product Name: Barium Sulfate Powder
Manufacturer: E-Z-EM, Canada, on behalf of E-Z-EM, Inc., 1111 Marcus Avenue, Suite LL-26, Lake Success, New York, 11042
Emergency/Information Contact: Adrienne Setton
Emergency/Information Telephone: (800)-544-4624 or (516) 333-8230, extension 3400
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Components	CAS No.	%(Optional)
Barium Sulfate (can contain silica - quartz)	7727-43-7 (14808-60-7)	99+% (0.1 - 1% of barium sulfate)

Section III. Physical Data

Boiling Point: N/A
Specific Gravity (H₂O = 1): N/A
Vapor Pressure (mm Hg): N/A
Melting Point: Not tested
Vapor Density (Air = 1): N/A
Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Insoluble
Appearance & Odor: White to off-white powder with no odor, slightly fruity or vanillin odor.

Section IV. Fire and Explosion Hazard Data

Flash Point (method): N/A
Flammable Limits: UEL - N/A LEL - N/A
Fire Extinguishing Media: Use extinguishing media that is suitable for surrounding fire.
Special Fire Fighting Procedures: Firefighters should wear full protective equipment and self-contained breathing apparatus with full face piece.
Unusual Fire & Explosion Hazards: None known
Toxic Gases Emitted: Sulfur dioxide

Section V. Reactivity Data

Stability: Stable
Conditions to avoid: None documented
Incompatible materials: Phosphorus, Aluminum
Decomposition products: Not tested
Hazardous Polymerization: Will not occur

Section VI. Health Hazard Data

Permissible Exposure Limit (PEL) for barium sulfate: Total Dust - 15 mg/m³ Time Weighted Average (TWA), Respirable dust - 5 mg/m³ TWA
Threshold Limit Value (TLV) for barium sulfate: Total Dust- 10 mg/m³ TWA Silica - quartz, respirable dust - 0.1 mg/m³ TWA
Short-Term Exposure Limit (STEL): Not established
Routes of Exposure: Inhalation, Ingestion
Health Hazards (acute and chronic): Through normal routes of entry, not expected to be a hazard. May cause irritation to eyes, skin and lungs. No adverse health effects expected from chronic exposure.
Carcinogenicity: Crystalline silica is listed by IARC as a Class 2A carcinogen based on limited evidence in humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a substance reasonably anticipated to be a carcinogen. NTP: Yes IARC: Yes OSHA: No
Effects of exposure: : May cause constipation. Eyes, skin and lungs may become irritated.
Medical conditions generally aggravated by exposure: No information found relating to normal routes of

exposure.

Emergency and First Aid procedures:

- **Eye contact** - Flush with water for at least 15 minutes.
- **Skin contact** - Wash area thoroughly with soap and water.
- **If ingested and person is conscious** - Give several glasses of water to dilute. If irritation persists or large quantities are ingested, get medical attention.
- **Inhalation** - remove to fresh air; get medical attention for any breathing difficulty. If irritation persists or large quantities are ingested, get medical attention.

Section VII. Spill and Disposal Information

Steps to be taken in case material is released or spilled: Wear appropriate protective equipment; respirator, safety goggles and gloves. Sweep material up. Place materials in container and label properly.

Waste Disposal Procedures: Products are not listed hazardous wastes under RCRA. Products are not likely to qualify as characteristic hazardous wastes, but any final determination depends on the specific circumstances of product usage and handling. Disposal should take place in compliance with federal, state and local laws and regulations.

Section VIII. Handling and Storage Precautions

- Store indoors in a tightly closed container, protected from extreme temperatures and potential sources of damage. Can be stored in any general chemical storage area.
- Do not smoke, eat or drink while handling any chemical. Practice good industrial and personal hygiene to avoid unnecessary exposure.

Section IX. Protective Equipment

Respiratory Protection: If exposure limits are exceeded use a dust respirator.

Ventilation: Use adequate local exhaust ventilation to keep fume levels as low as possible.

Protective Gloves: Appropriate gloves

Eye Protection: Safety goggles or glasses

Emergency Equipment: Always ensure there is an emergency eye wash in the area.

MATERIAL SAFETY DATA SHEET

SECTION 1 - General Information

PRODUCT NAME **T2 Automatic X-Ray Developers, Working Solution**

PRODUCT USE Photographic developer

HMIS SCALE HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 PPE C

SUPPLIER White Mountain Imaging

CATALOG #

4010D, 4010D-ADM, 4010D-AG, 4010D-DP, 4010D-EX,
4010D-LA, 4010D-MR, 4010D-MV, 4010D-UM, 4200D,
4200D-LA

ADDRESS P.O. Box 216 Salisbury NH 03268

PHONE NO. **603-648-2124**

EMERGENCY TEL #

CHEMTREC 800-424-9300

SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	42.6 gm/kg	not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	<2	NIOSH (C) 2 mg/m3	365 mg/kg	not available

SECTION 3 - Hazards Identification

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

SECTION 4 - First Aid Measures

SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

INHALATION

If inhaled, remove to fresh air.

SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES ☐ NO ☒ IF YES, UNDER WHAT CONDITIONS

MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
Not appropriate	Not appropriate	Not appropriate	Not appropriate
HAZARDOUS COMBUSTION PRODUCTS	EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE
See "Hazardous Decomposition Products".	Not susceptible	Not susceptible	Not susceptible

SECTION 6 - Accidental Release

Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear splash goggles, impervious gloves and apron.

SECTION 7 - Handling and Storage

Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.

MATERIAL SAFETY DATA SHEET

SECTION 1 - General Information

PRODUCT NAME **T2 Automatic X-Ray Fixers Concentrate, Working Solution**

PRODUCT USE **Photographic fixer**

HMIS SCALE

HEALTH **1**

FLAMMABILITY **0**

REACTIVITY **0**

PPE

C

SUPPLIER **White Mountain Imaging**

CATALOG #

3303, 4010F, 4010FP, 4300F

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	90-95	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	8-12	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<2	not listed	2825 mg/kg	not available
Aluminum sulfate	10043-01-3	<2	ACGIH TWA 2mg/m3	6201 mg/kg	not available

SECTION 3 - Hazards Identification

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. may cause burning or irritation of eyes and mucous membranes. may cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

SECTION 4 - First Aid Measures

SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION

DO NOT induce vomiting. Seek medical advice giving details of amount swallowed and toxicity.

INHALATION

If inhaled, remove to fresh air.

SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES ☐ NO ☒ IF YES, UNDER WHAT CONDITIONS

MEANS OF EXTINGUISH

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD

Not appropriate

UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

AUTOIGNITION TEMPERATURE (°C)

Not appropriate

HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

EXPLOSION DATA

SENSITIVITY TO IMPACT

Not susceptible

SENSITIVITY TO STATIC DISCHARGE

Not susceptible

SECTION 6 - Accidental Release

Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear appropriate protective equipment.

SECTION 7 - Handling and Storage

Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.

PHOTO LOG

Facility Name/City: St. John's Regional Medical Center, 2727 McClelland Boulevard, Joplin, Missouri 64804

Facility ID #: MOD076262500

Date: May 4-5, 2011

Photographer: Michael J. Martin

Type of Camera: Canon Power Shot G5, Serial #: 6721003894

Digital Recording Media: Flashcard

All digital photos were copied by: Michael J. Martin on May 20, 2011.

All digital photos were copied to: CD-R

Original copy is stored in: CD-R Digital photos were downloaded to CD-R by Michael J. Martin.

No changes were made in the original image files prior to storage on the CD-R.

Michael J. Martin

Report Photo#	Photographer	Date	Approx. Time	File Name (IMG_xxx.jpg)	Description
1	Michael J. Martin	05/04/2011	11:16 AM	0001	Photo of four plastic two by two foot containers of unopened/unused pharmaceuticals (slated for reverse distribution) located at the Pharmacy. Photo taken facing east.
2	Michael J. Martin	05/04/2011	11:17 AM	0002	Same image as Photo #1. Photo taken facing east.
3	Michael J. Martin	05/04/2011	11:19 AM	0003	Photo of one biohazardous waste storage container located at the Pharmacy (near the chemotherapy preparation hood filter). Photo taken facing south.
4	Michael J. Martin	05/04/2011	11:19 AM	0004	Same image as Photo #3. Photo taken facing south.
5	Michael J. Martin	05/04/2011	12:02 PM	0005	Photo of 28 one gallon hazardous waste storage containers of waste stain located at the Hazardous Waste Storage Area. Photo taken facing east.
6	Michael J. Martin	05/04/2011	12:02 PM	0006	Photo of one 1-gallon hazardous waste storage container of waste stain (not marked per the DOT requirements, not marked with the date of accumulation, and not marked with the words "Hazardous Waste") located at the Hazardous Waste Storage Area. Photo taken facing east.

7	Michael J. Martin	05/04/2011	12:53 PM	0007	Photo of one 1-gallon storage hazardous waste storage container of waste stain (marked per the DOT requirements, marked with the 03/28/2011 date of accumulation, and marked with the words "Hazardous Waste") located at the Hazardous Waste Storage Area. Photo taken facing east.
8	Michael J. Martin	05/04/2011	1:28 PM	0008	Photo of 3M 1228 indicator tape (on the dispensing unit), 3M 1248 chemical indicator strips, two 3M Comply 1243 integrators, and one roll of 3M Comply 1222 indicator tape located at Central Sterile. Photo taken facing east.
9	Michael J. Martin	05/04/2011	1:36 PM	0009	Photo of Steris LCC008 indicator strips (bottom) and Steris 20 Concentrate (top) located at Central Sterile. Photo taken facing east.
10	Michael J. Martin	05/04/2011	2:04 PM	0010	Photo of one 1-gallon hazardous waste satellite accumulation container of waste stain located at the Histology Lab. Photo taken facing south.
11	Michael J. Martin	05/04/2011	2:36 PM	0011	Photo of Spectra MRSA waste (agar plates) and Xpert MRSA waste (blue cartridges) stored in the biohazardous waste storage container located at the Microbiology Lab. Photo taken facing north.
12	Michael J. Martin	05/04/2011	2:37 PM	0012	Same image as Photo #11. Photo taken facing north.
13	Michael J. Martin	05/04/2011	3:22 PM	0013	Photo of one silver recovery unit located at the Radiology Department (Dark Room). Photo taken facing south.
14	Michael J. Martin	05/04/2011	3:24 PM	0014	Photo of two 55-gallon storage containers of medical film located at the Radiology Lab. Photo taken facing south.
15	Michael J. Martin	05/04/2011	3:36 PM	0015	Photo of 29 one gallon storage containers of waste formalin located at the Shipping Dock. Photo taken facing north.
16	Michael J. Martin	05/04/2011	3:36 PM	0016	Same image as Photo #15. Photo taken facing north.

17	Michael J. Martin	05/04/2011	3:40 PM	0017	Photo of biohazardous waste storage containers located at the Shipping Dock. Photo taken facing north.
18	Michael J. Martin	05/05/2011	8:35 AM	0018	Photo of one agar plate (Spectra MRSA method) located at the Microbiology Lab. Photo taken facing north.
19	Michael J. Martin	05/05/2011	8:38 AM	0019	Photo of the hazardous waste label located on the biohazardous waste storage container (Spectra MRSA waste and Xpert MRSA waste) located at the Microbiology Lab. Photo taken facing north.
20	Michael J. Martin	05/05/2011	9:12 AM	0020	Photo of three open boxes of 114 universal waste-lamps located at the Universal Waste Storage Area (Electrical Closet). Photo taken facing south.
21	Michael J. Martin	05/05/2011	9:13 AM	0021	Same image as Photo #20. Photo taken facing north.
22	Michael J. Martin	05/05/2011	9:15 AM	0022	Photo of one open box of 33 universal waste-lamps located at the Universal Waste Storage Area (Electrical Closet). Photo taken facing south.
23	Michael J. Martin	05/05/2011	9:15 AM	0023	Photo of one open box of 30 universal waste-lamps located at the Universal Waste Storage Area (Electrical Closet). Photo taken facing south.
24	Michael J. Martin	05/05/2011	9:55 AM	0024	Photo of two soldering gun units (with sponges) located at the Biomedical Services Department. Photo taken facing west.
25	Michael J. Martin	05/05/2011	9:58 AM	0025	Photo of two rolls of lead solder located at the Biomedical Services Department. Photo taken facing west.
26	Michael J. Martin	05/05/2011	10:07 AM	0026	Photo of alkaline batteries located at the Biomedical Services Department. Photo taken facing west.
27	Michael J. Martin	05/05/2011	10:07 AM	0027	Photo of lead-acid batteries located at the Biomedical Services Department. Photo taken facing west.

St. John's Regional Medical Center

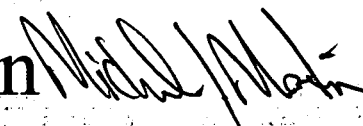
2727 McClelland Boulevard

Joplin, Missouri 64804

MOD076262500

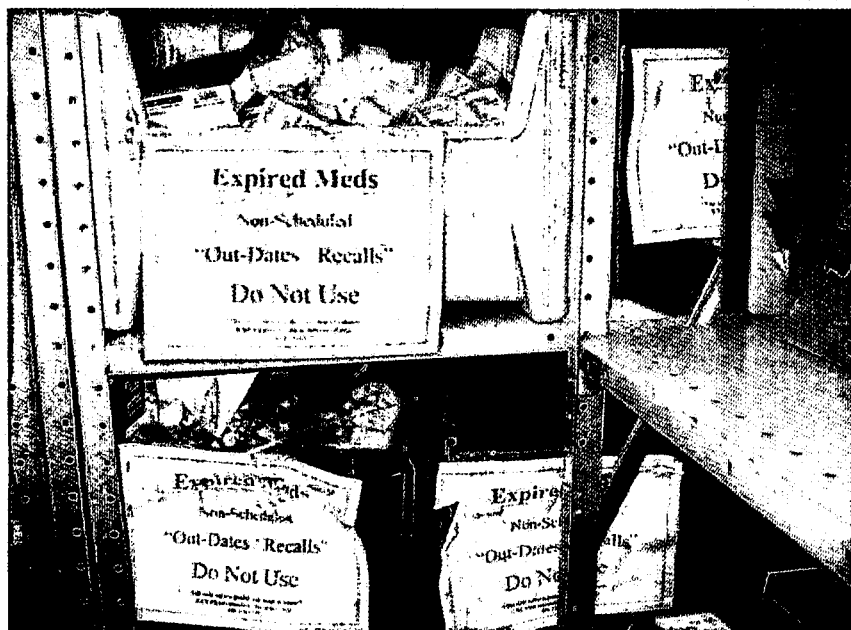
RCRA CEI Photos

Photos taken by Michael J. Martin

A handwritten signature in black ink, appearing to read "Michael J. Martin", is written over the end of the text "Photos taken by Michael J. Martin".

on

May 4-5, 2011

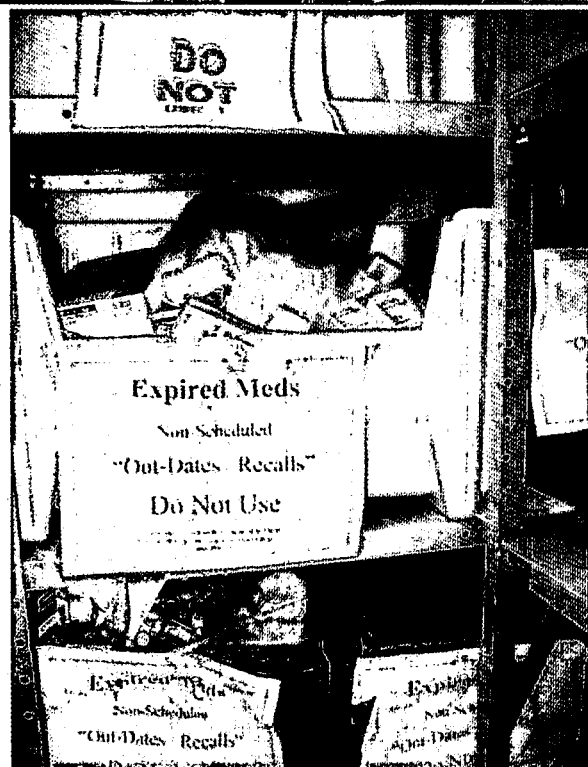


St. John's
May 4, 2011

Photo of four plastic two by two foot containers of unopened/unused pharmaceuticals (slated for reverse distribution) located at the Pharmacy. Photo taken facing east.

Photo 1

Michael J. Martin *MJM*



St. John's
May 4, 2011

Same image as Photo #1. Photo taken facing east.

Photo 2

Michael J. Martin *MJM*

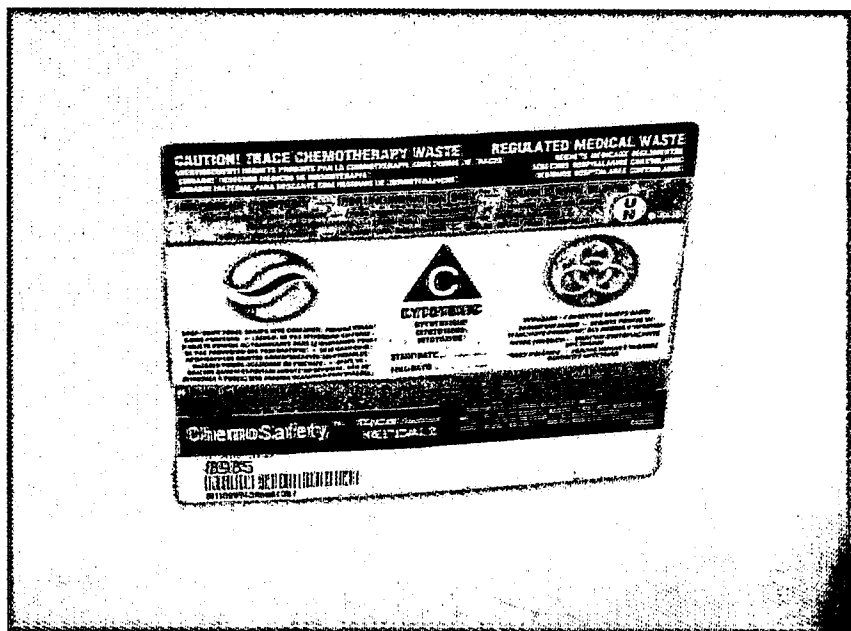


St. John's
May 4, 2011

Photo of one biohazardous waste storage container located at the Pharmacy (near the chemotherapy preparation hood filter). Photo taken facing south.

Photo 3

Michael J. Martin *MJM*



St. John's
May 4, 2011

Same image as Photo #3. Photo taken facing south.

Photo 4

Michael J. Martin *MJM*



St. John's
May 4, 2011

Photo of 28 one gallon hazardous waste storage containers of waste stain located at the Hazardous Waste Storage Area. Photo taken facing east.

Photo 5

Michael J. Martin *WJM*

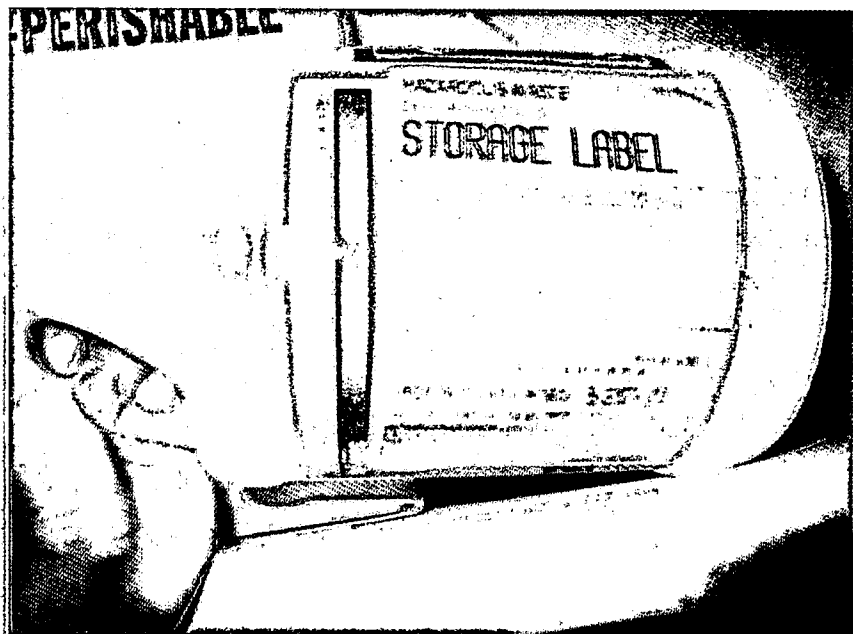


St. John's
May 4, 2011

Photo of one 1-gallon hazardous waste storage container of waste stain (not marked per the DOT requirements, not marked with the date of accumulation, and not marked with the words "Hazardous Waste") located at the Hazardous Waste Storage Area. Photo taken facing east.

Photo 6

Michael J. Martin *WJM*

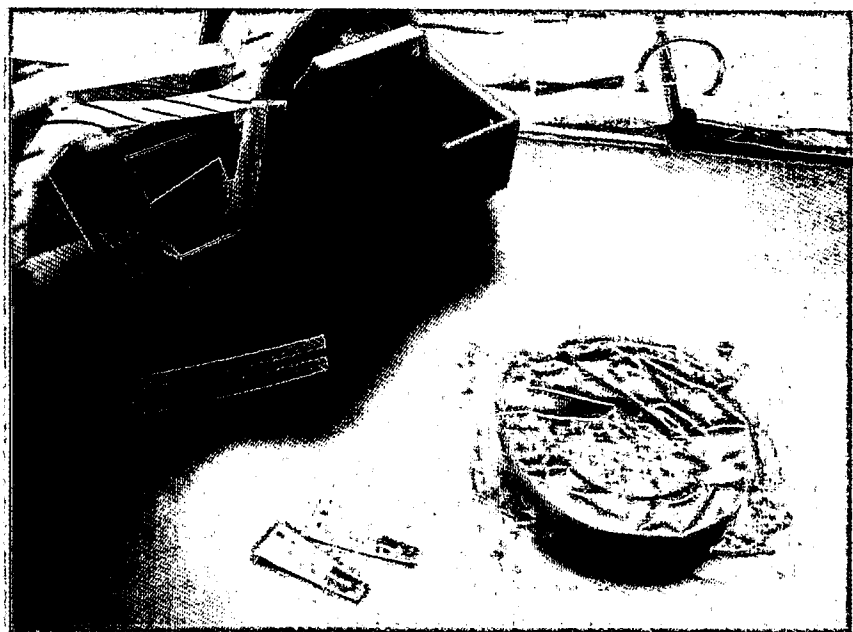


St. John's
May 4, 2011

Photo of one 1-gallon storage hazardous waste storage container of waste stain (marked per the DOT requirements, marked with the 03/28/2011 date of accumulation, and marked with the words "Hazardous Waste") located at the Hazardous Waste Storage Area. Photo taken facing east.

Photo 7

Michael J. Martin *MJM*

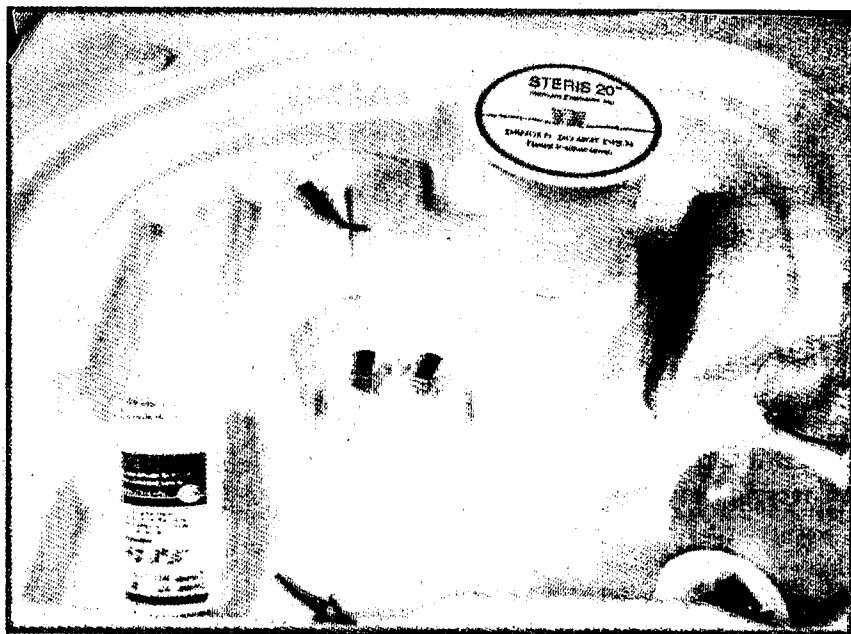


St. John's
May 4, 2011

Photo of 3M 1228 indicator tape (on the dispensing unit), 3M 1248 chemical indicator strips, two 3M Comply 1243 integrators, and one roll of 3M Comply 1222 indicator tape located at Central Sterile. Photo taken facing east.

Photo 8

Michael J. Martin *MJM*

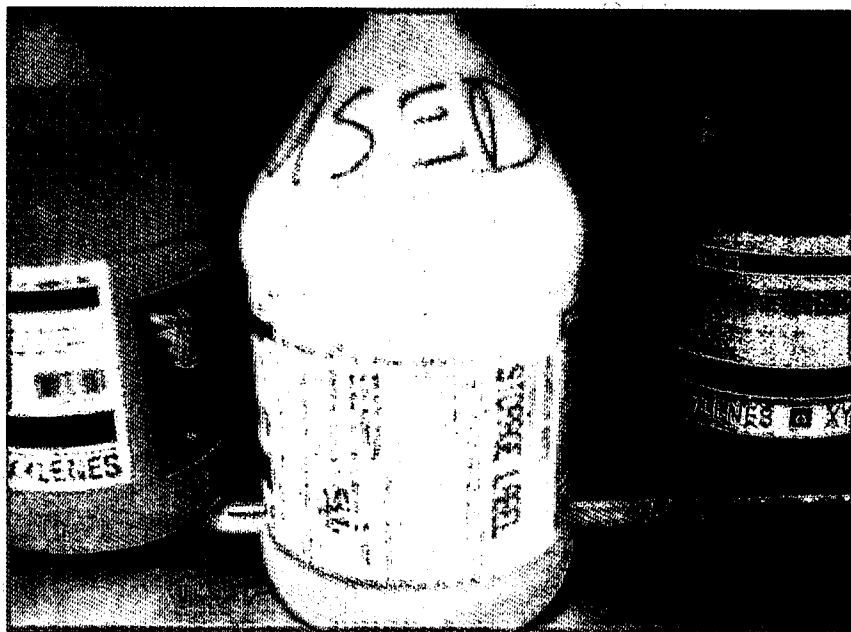


St. John's
May 4, 2011

Photo of Steris LCC008 indicator strips (bottom) and Steris 20 Concentrate (top) located at Central Sterile. Photo taken facing east.

Photo 9

Michael J. Martin *WJM*

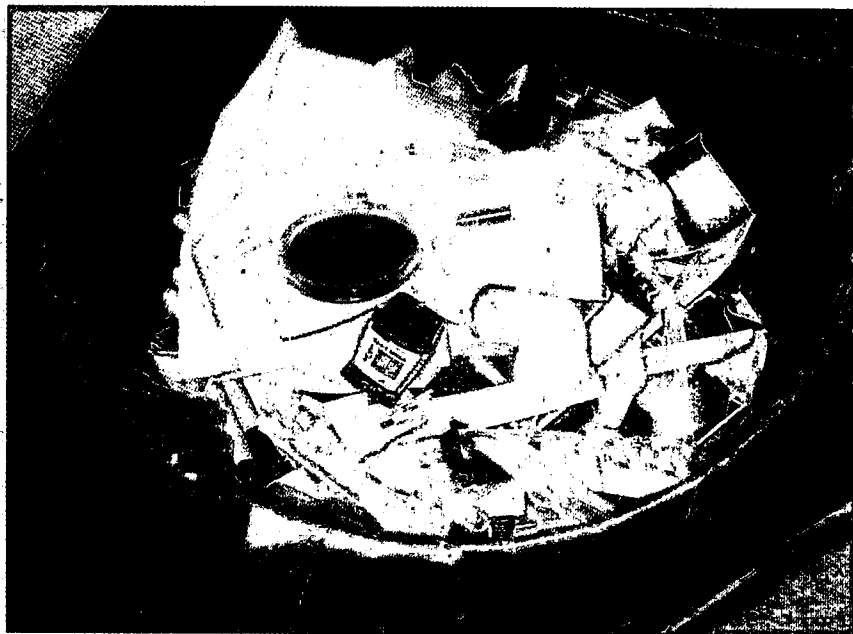


St. John's
May 4, 2011

Photo of one 1-gallon hazardous waste satellite accumulation container of waste stain located at the Histology Lab. Photo taken facing south.

Photo 10

Michael J. Martin *WJM*



St. John's
May 4, 2011

Photo of Spectra MRSA waste (agar plates) and Xpert MRSA waste (blue cartridges) stored in the biohazardous waste storage container located at the Microbiology Lab. Photo taken facing north.

Photo 11

Michael J. Martin *MJM*

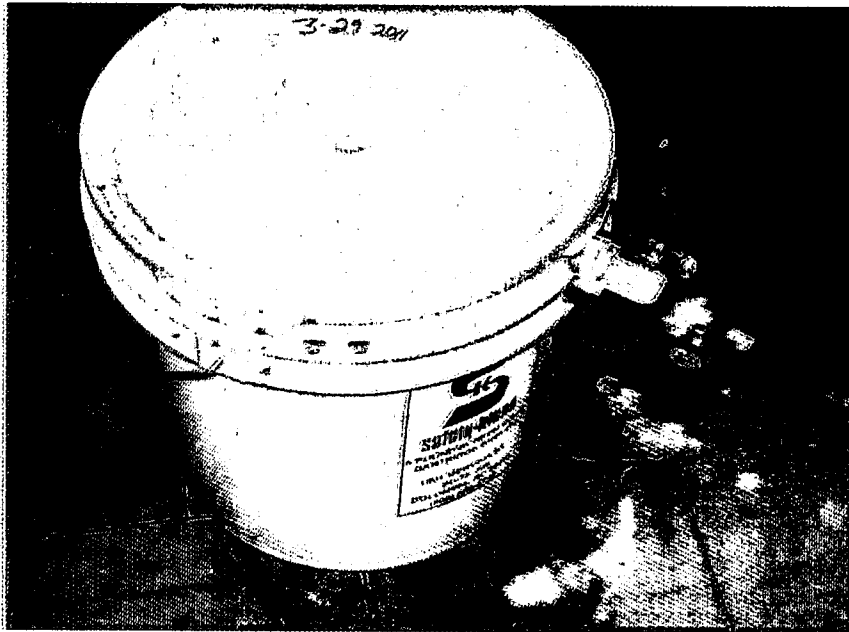


St. John's
May 4, 2011

Same image as Photo #11. Photo taken facing north.

Photo 12

Michael J. Martin *MJM*

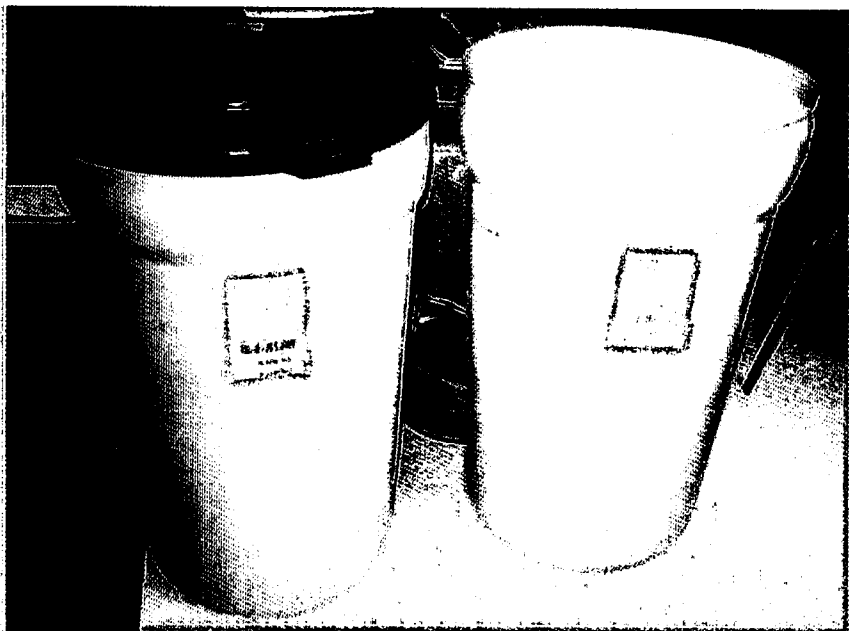


St. John's
May 4, 2011

Photo of one silver recovery unit located at the Radiology Department (Dark Room). Photo taken facing south.

Photo 13

Michael J. Martin *MJM*



St. John's
May 4, 2011

Photo of two 55-gallon storage containers of medical film located at the Radiology Lab. Photo taken facing south.

Photo 14

Michael J. Martin *MJM*

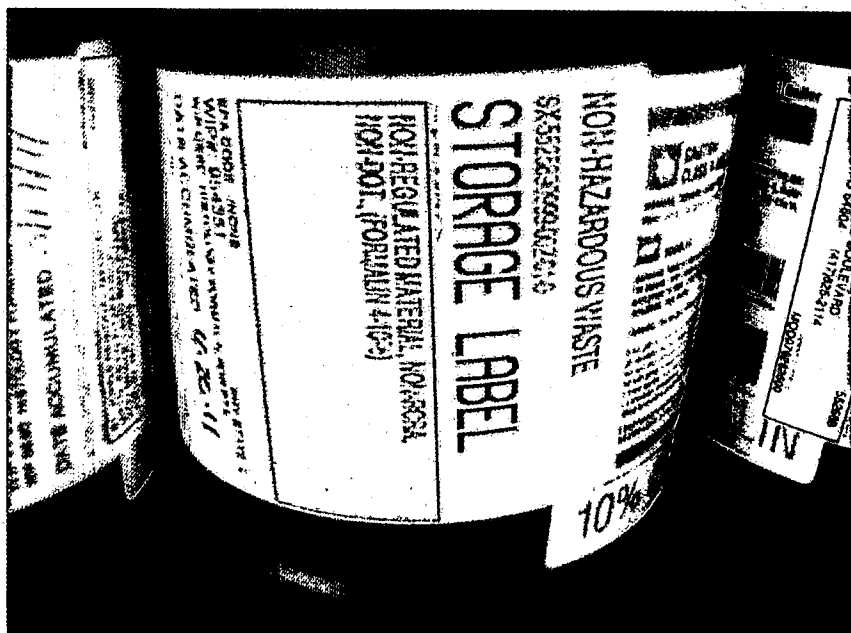


St. John's
May 4, 2011

Photo of 29 one gallon storage containers of waste formalin located at the Shipping Dock. Photo taken facing north.

Photo 15

Michael J. Martin *MJM*

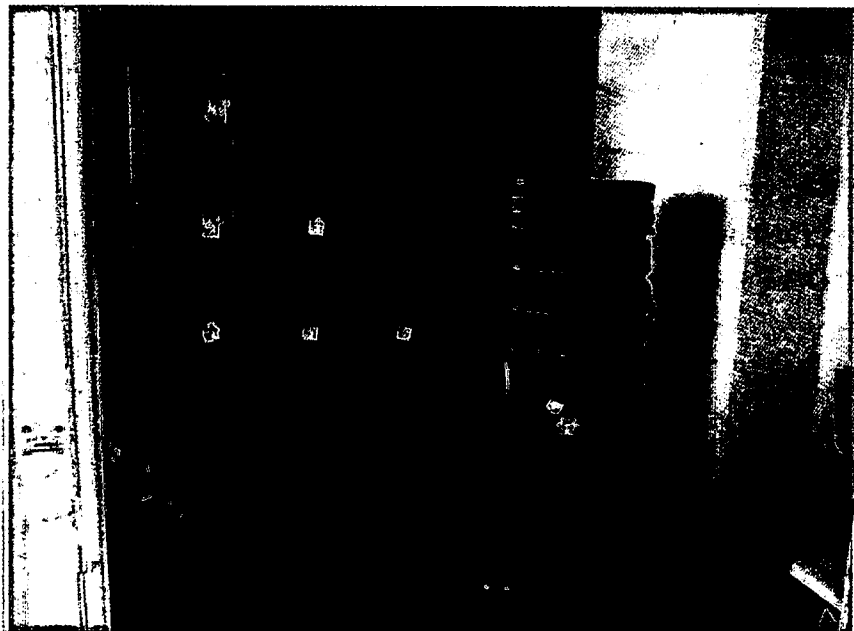


St. John's
May 4, 2011

Same image as Photo #15.. Photo taken facing north.

Photo 16

Michael J. Martin *MJM*



St. John's
May 4, 2011

Photo of biohazardous waste storage
containers located at the Shipping Dock.
Photo taken facing north.

Photo 17

Michael J. Martin *MJM*

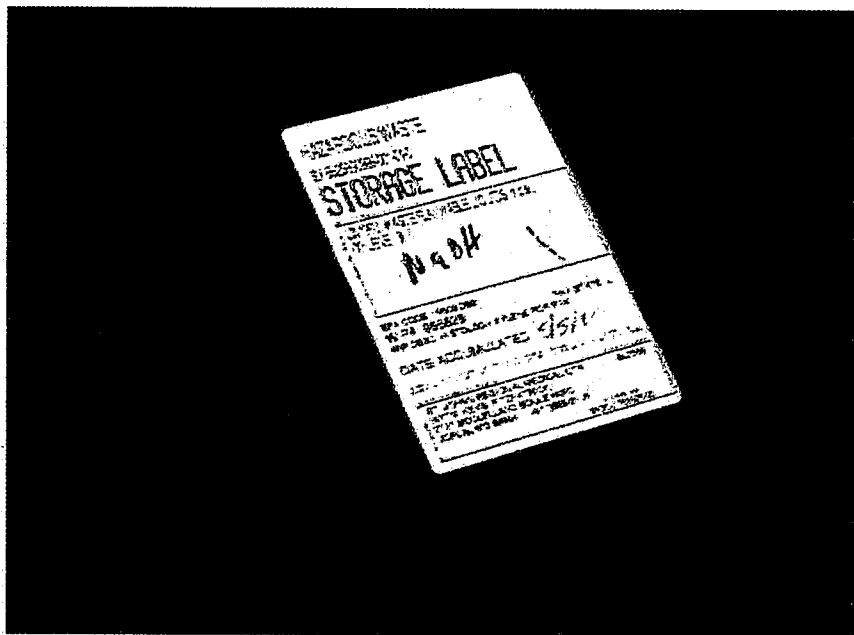


St. John's
May 5, 2011

Photo of one agar plate (Spectra MRSA
method) located at the Microbiology
Lab. Photo taken facing north.

Photo 18

Michael J. Martin *MJM*

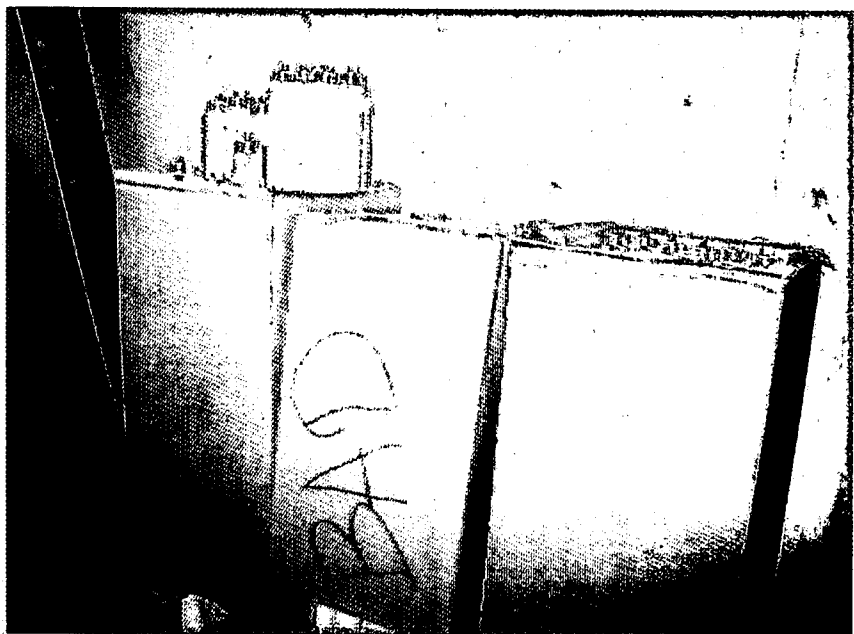


St. John's
May 5, 2011

Photo of the hazardous waste label located on the biohazardous waste storage container (Spectra MRSA waste and Xpert MRSA waste) located at the Microbiology Lab. Photo taken facing north.

Photo 19

Michael J. Martin *MJM*

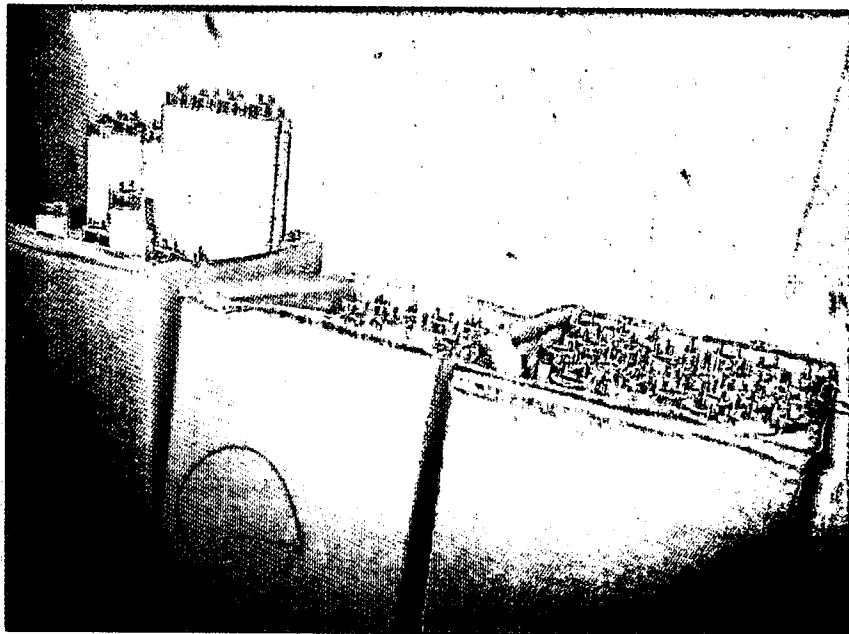


St. John's
May 5, 2011

Photo of three open boxes of 114 universal waste-lamps located at the Universal Waste Storage Area (Electrical Closet). Photo taken facing south.

Photo 20

Michael J. Martin *MJM*

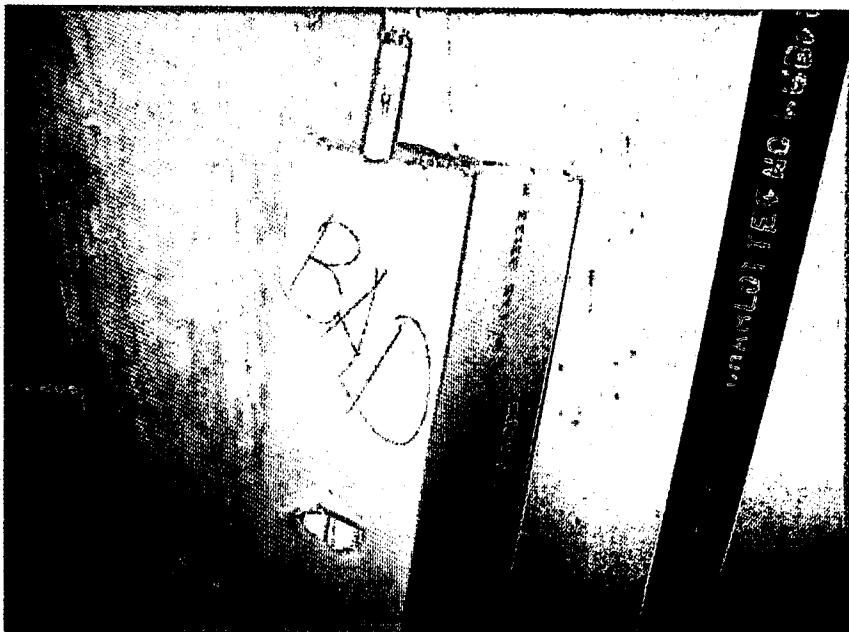


St. John's
May 5, 2011

Same image as Photo #20. Photo taken facing north.

Photo 21

Michael J. Martin *mm*



St. John's
May 5, 2011

Photo of one open box of 33 universal waste-lamps located at the Universal Waste Storage Area (Electrical Closet). Photo taken facing south.

Photo 22

Michael J. Martin *mm*

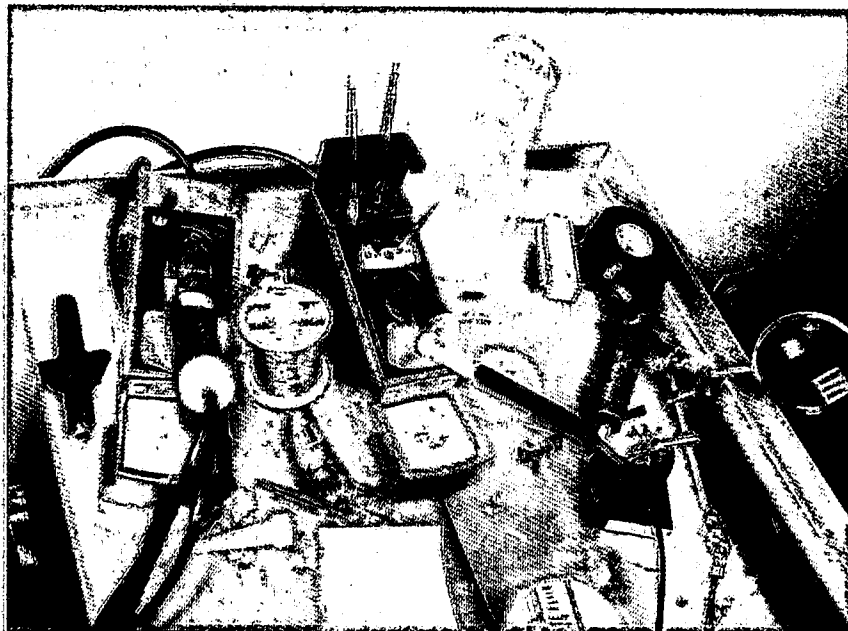


St. John's
May 5, 2011

Photo of one open box of 30 universal waste-lamps located at the Universal Waste Storage Area (Electrical Closet). Photo taken facing south.

Photo 23

Michael J. Martin *MJM*

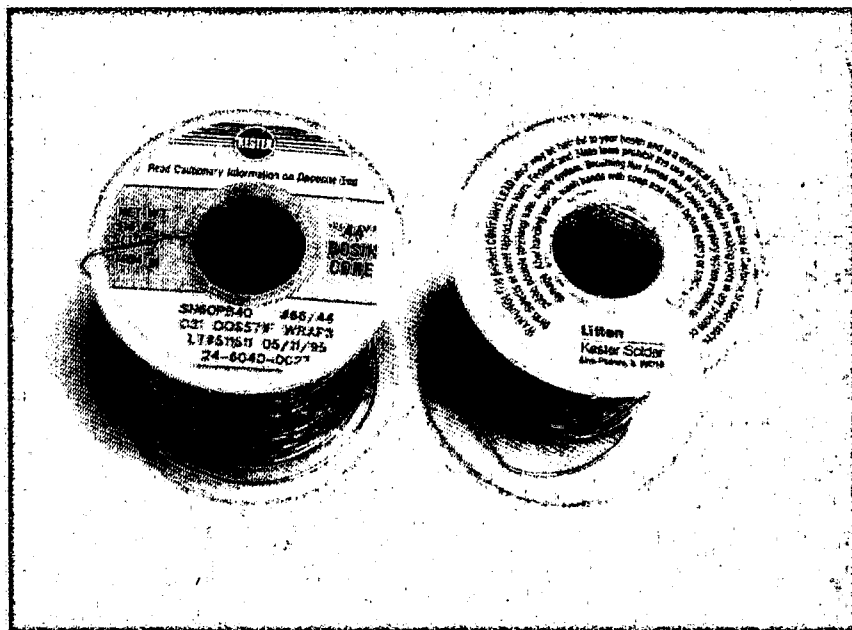


St. John's
May 5, 2011

Photo of two soldering gun units (with sponges) located at the Biomedical Services Department. Photo taken facing west.

Photo 24

Michael J. Martin *MJM*

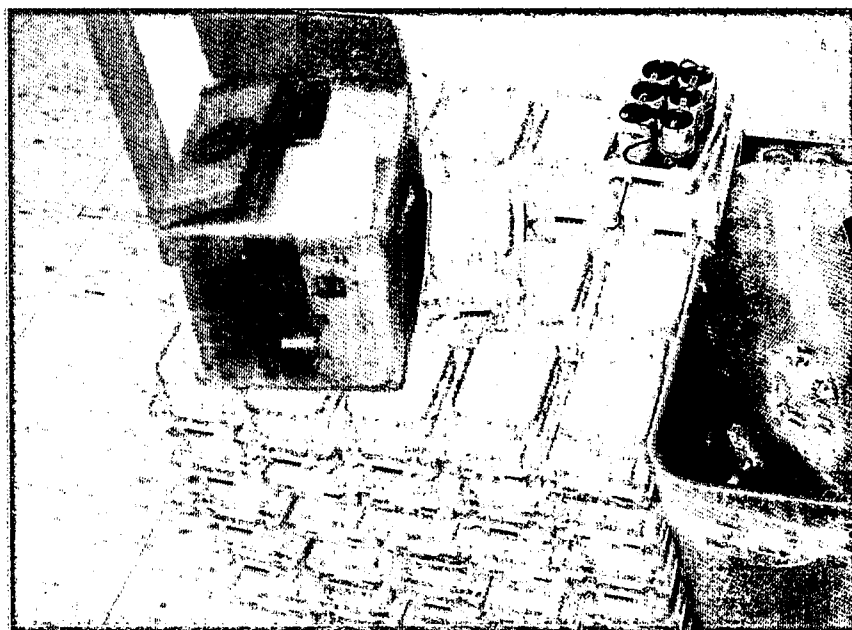


St. John's
May 5, 2011

Photo of two rolls of lead solder located
at the Biomedical Services Department.
Photo taken facing west.

Photo 25

Michael J. Martin *MJM*

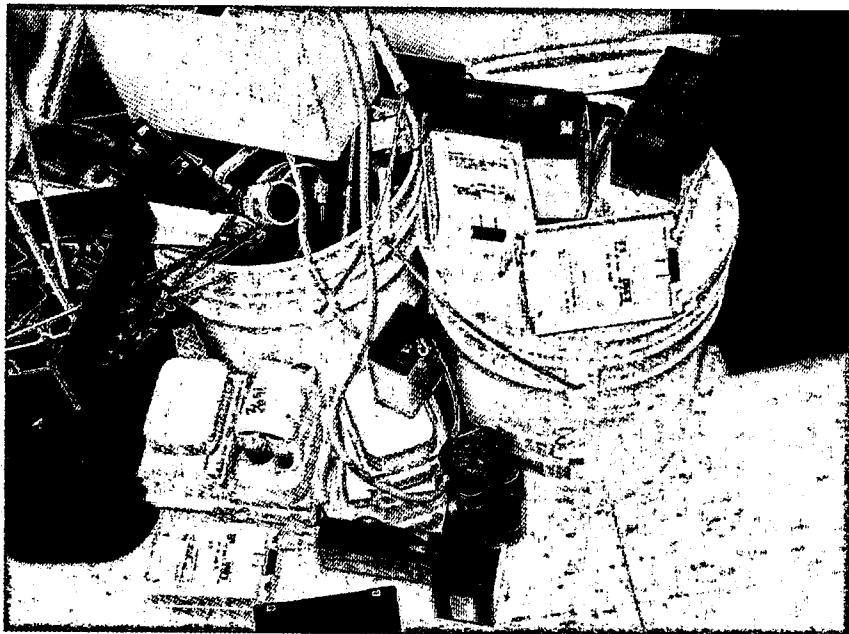


St. John's
May 5, 2011

Photo of alkaline batteries located at the
Biomedical Services Department.
Photo taken facing west.

Photo 26

Michael J. Martin *MJM*



St. John's
May 5, 2011

Photo of lead-acid batteries located at
the Biomedical Services Department.
Photo taken facing west.

Photo 27

Michael J. Martin *MJM*